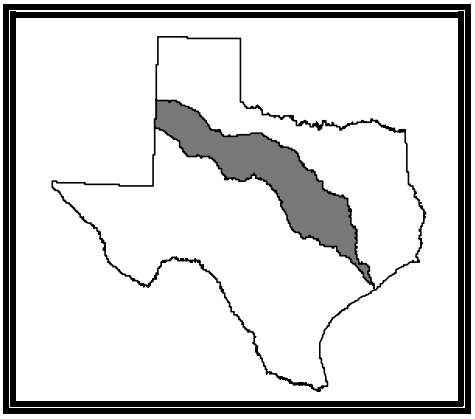
Below is an Electronic Version of an Out-of-Print Publication

Basin 12
Brazos River



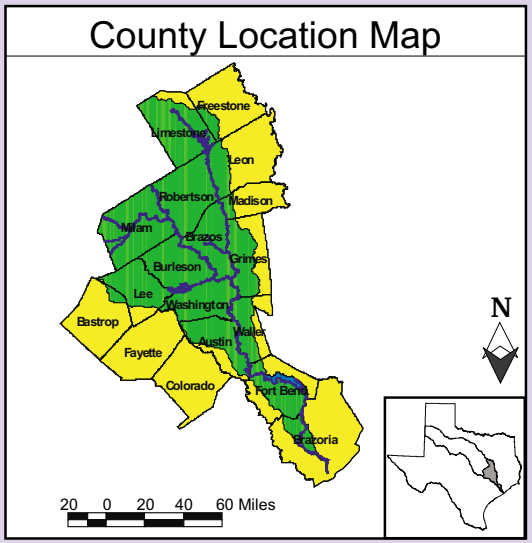
Brazos River Basin Narrative Summary

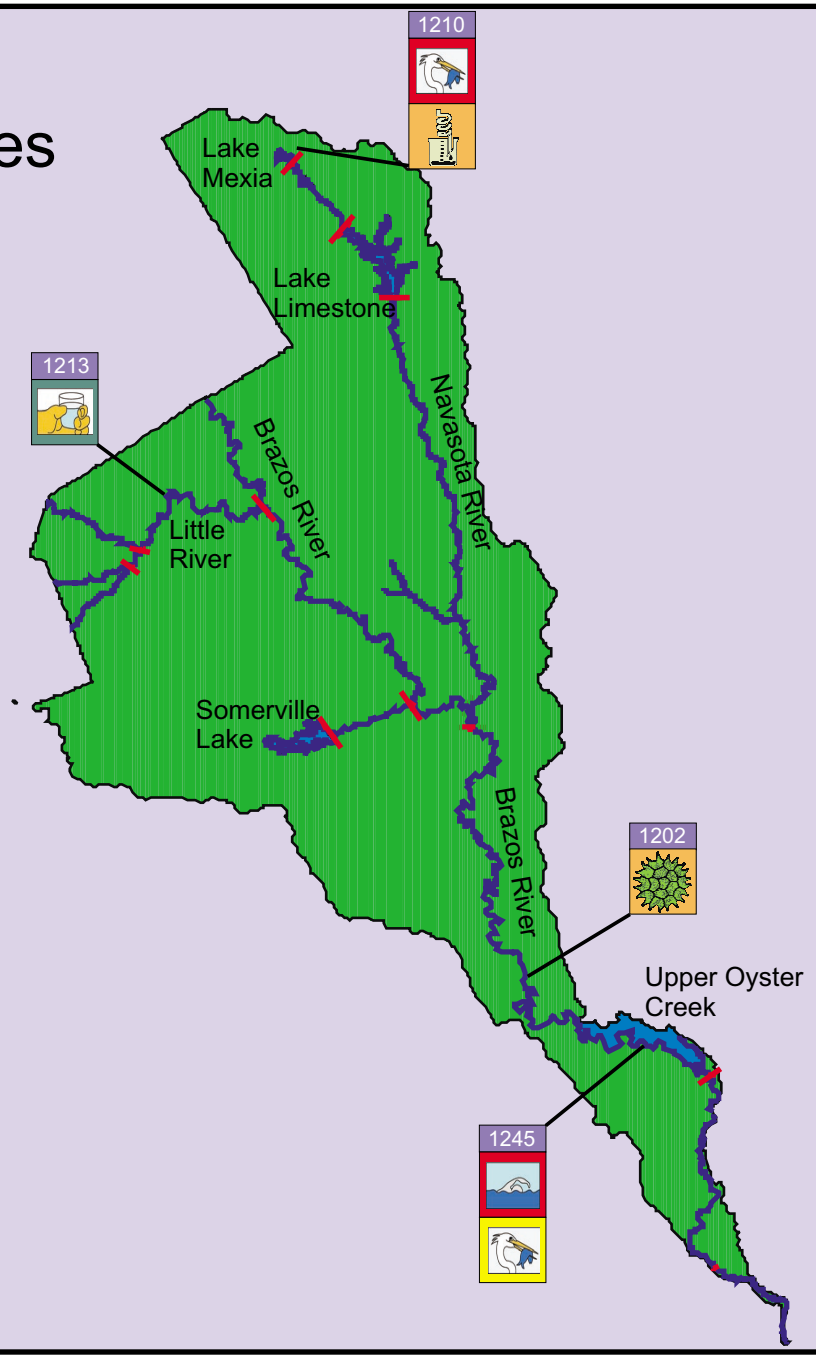
The Brazos River Basin has the largest drainage area of all basins between the Rio Grande and the Red River in Texas. Total basin drainage area is 45,573 square miles, of which approximately 43,000 square miles are in Texas, the remainder, in New Mexico. The headwaters of the Brazos are formed by three forks-the Double Mountain Fork, South Fork, and Clear Fork. Principal tributaries to the Brazos downstream of the Clear Fork are Yegua Creek, Bosque River, Little River (formed by the confluence of the Leon, Lampasas, and San Gabriel Rivers) and the Navasota River.

For monitoring purposes, the Brazos River Basin has been divided into 77 segments, which consist of 3,062 stream miles, and 28 reservoirs which encompass 165,016 acres. Presently there are 228 active surface water quality sites, which are monitored on a routine basis throughout the basin.

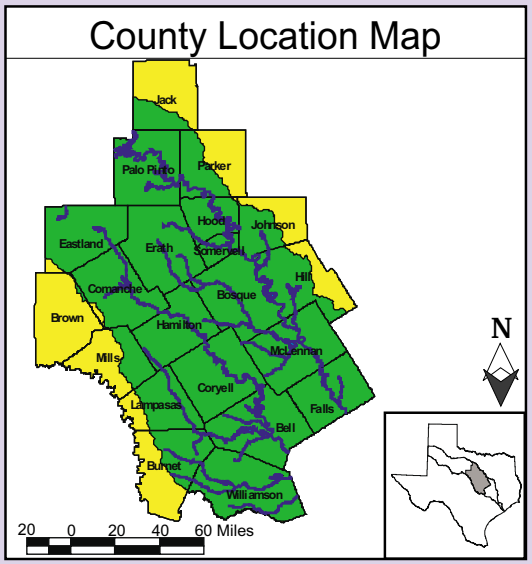
Elevated fecal coliform densities sometimes occur in Carters Creek, Rocky Creek, Nolan and South Nolan Creek, Leon River downstream of Lake Proctor, Duncan Creek, North Bosque River, Duffau Creek, Meridian Creek, Neils Creek, Brazos River below Whitney Lake, Upper Oyster Creek, and the Upper North Bosque River. Confined animal feeding operations, agricultural and urban runoff, and domestic wastewater treatment plants contribute to elevated fecal coliform bacteria densities. Depressed dissolved oxygen levels have occurred in Lake Mexia, Rocky Creek, Proctor Lake, Duncan Creek, Green Creek, Salado Creek, Upper Oyster Creek, and Aquilla Reservoir.

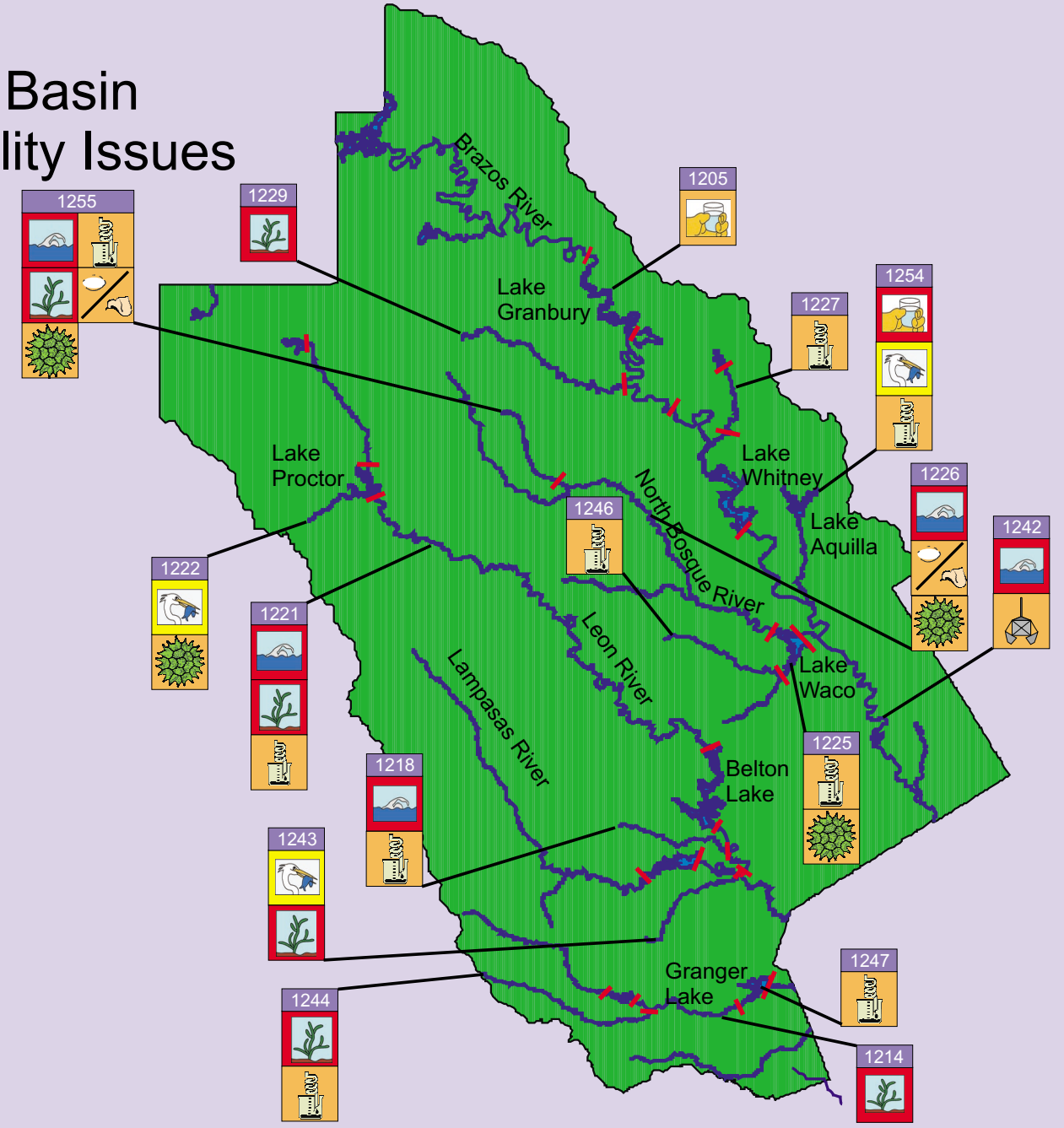
Lower Brazos River Basin
Identified Water Quality Issues



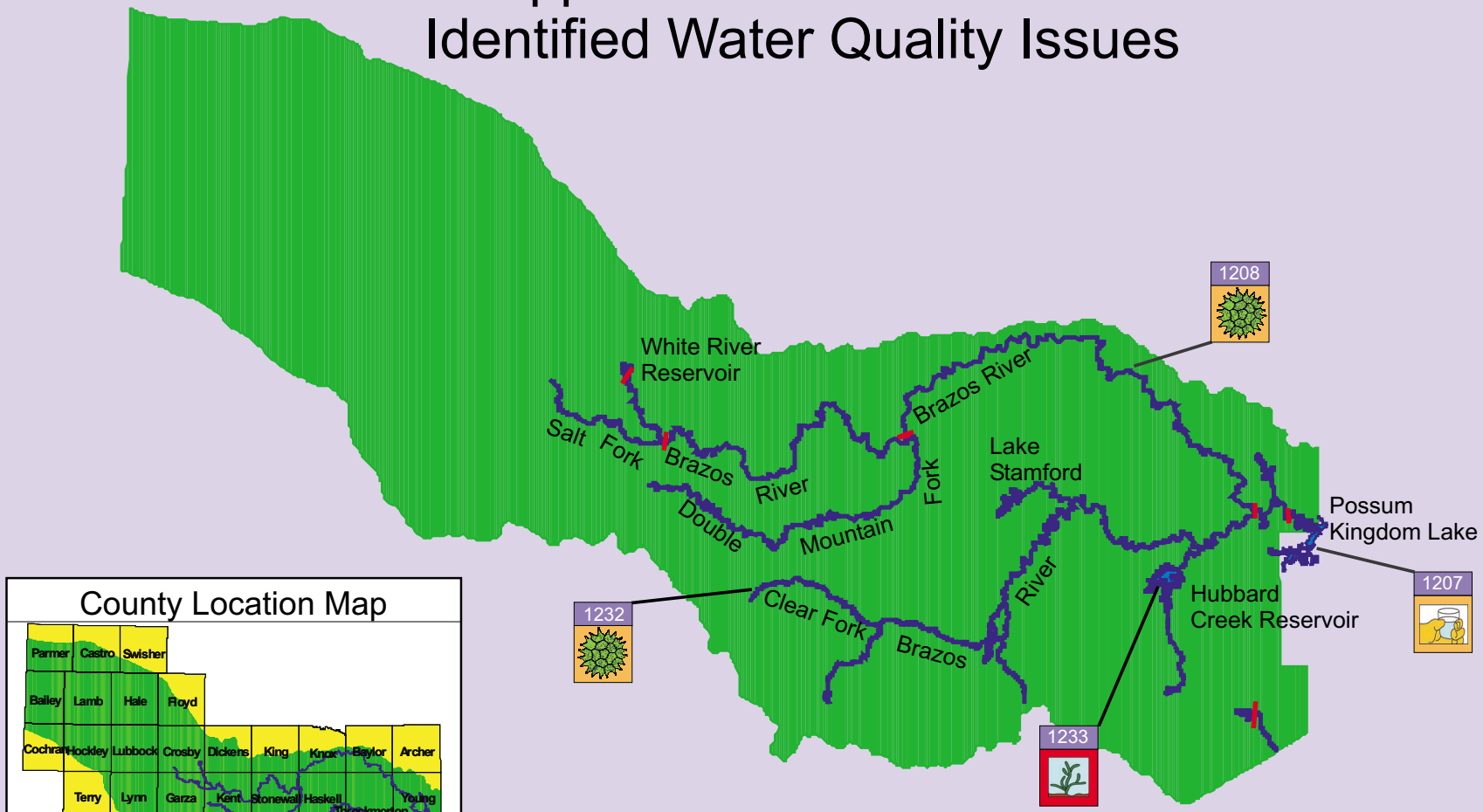


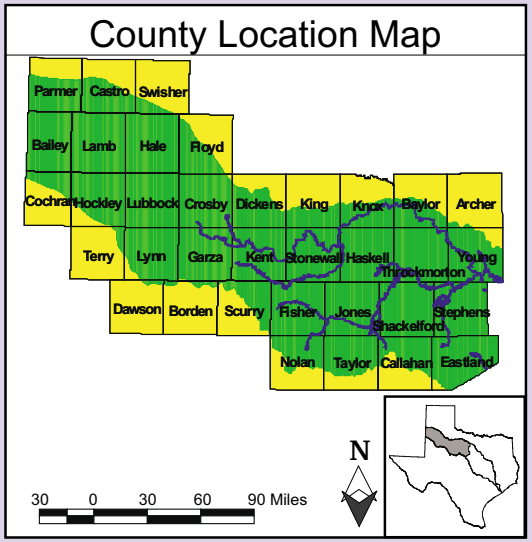
Middle Brazos River Basin
Identified Water Quality Issues



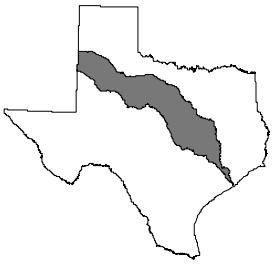


Upper Brazos River Basin
Identified Water Quality Issues



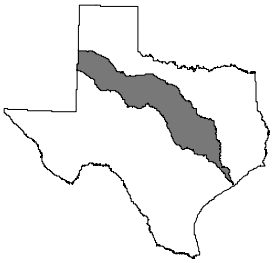


Brazos River Basin Graphical Summary

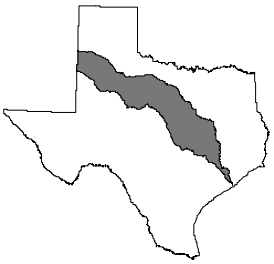
Basin Map	Water Bodies									
	**Segment 1201** Brazos River Tidal	**Segment 1202** Brazos River	**Segment 1203** Whitney Lake	**Segment 1204** Brazos River Below Lake Granbury	**Segment 1205** Lake Granbury	**Segment 1206** Brazos River Below Possum Kingdom Lake	**Segment 1207** Possum Kingdom Lake	**Segment 1208** Brazos River Above Possum Kingdom Lake	**Segment 1209** Navasota River Below Lake Limestone	**Segment 1209A** Bryan Municipal Lake
DESIGNATED USE SUPPORT										
Contact Recreation	NA	S	S	S	NA	S	NA	S	S	NA
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Public Water Supply	S	S	S	X	S	X	S	X	S	X
Fish Consumption										
Human Health	NA	S	NA	NA	NA	NA	NA	NA	NA	N
Advisories/Closures	S	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aquatic Life										
Dissolved Oxygen (Grab)	S	S	S	S	S	S	S	S	S	NA
Dissolved Oxygen (24-Hour)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in Water	S	NA	NA	NA	NA	NA	NA	NA	NA	S
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	S	NA	NA	NA	NA	NA	NA	NA	NA	S
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	N
Macrobenthos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GENERAL USE SUPPORT										
Water Temperature	S	S	S	S	S	S	S	S	S	X
pH	S	S	S	S	S	S	S	S	S	X
Chloride	X	S	S	S	S	S	S	S	S	X
Sulfate	X	S	S	S	S	S	S	S	S	X
Total Dissolved Solids	X	S	S	S	S	S	S	S	S	X

S = Support; P = Partial Support; N = Nonsupport; T = Threatened; NC = No Concern; C = Concern;
NA = Not Assessed; X = Not Applicable

Brazos River Basin Graphical Summary (Continued)

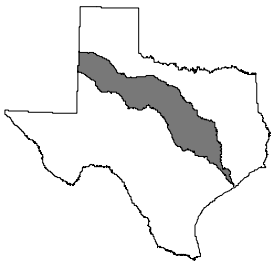
Basin Map	Water Bodies									
	**Segment 1201** Brazos River Tidal	**Segment 1202** Brazos River Below Navasota	**Segment 1203** Whitney Lake	**Segment 1204** Brazos River Below Lake Granbury	**Segment 1205** Lake Granbury	**Segment 1206** Brazos River Below Possum Kingdom Lake	**Segment 1207** Possum Kingdom Lake	**Segment 1208** Brazos River Above Possum Kingdom Lake	**Segment 1209** Navasota River Below Lake Limestone	**Segment 1209A** Bryan Municipal Lake
WATER QUALITY CONCERNS										
Contact Recreation	NA	X	X	X	NA	X	NA	X	X	NA
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Fish Tissue	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment	NA	NA	NA	NA	NA	NA	NA	NA	NA	C
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Nutrient Enrichment										
Ammonia Nitrogen	NC	NC	NA	NC	NA	NC	NA	NC	NC	NA
Nitrite + Nitrate Nitrogen	NC	NC	NC	NA	NA	NC	NA	NC	NC	NA
Orthophosphorus	NC	NC	NA	NA	NC	NC	NC	NC	NC	NA
Total Phosphorus	NC	NC	NA	NC	NA	NC	NA	NC	NC	NA
Chlorophyll *a*	NC	C	NA	NC	NA	NC	NA	C	NC	NA
Public Water Supply										
Finished Water Chloride	NC	NC	NC	X	NC	X	NC	X	NC	X
Finished Water Sulfate	NC	NC	NC	X	NC	X	NC	X	NC	X
Finished Water TDS	NC	NC	NC	X	NC	X	NC	X	NC	X
Surface Water Chloride	NC	NC	NC	X	C	X	C	X	NC	X
Surface Water Sulfate	NC	NC	NC	X	NC	X	C	X	NC	X
Surface Water TDS	NC	NC	NC	X	C	X	C	X	NC	X
Aquatic Life										
Dissolved Oxygen	X	X	X	X	X	X	X	X	X	NA
Metals in Water	X	NA	NA	NA	NA	NA	NA	NA	NA	X
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	X	NA	NA	NA	NA	NA	NA	NA	NA	X
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	X

Brazos River Basin Graphical Summary

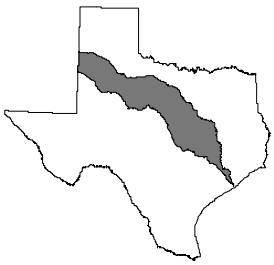
Basin Map	Water Bodies									
	**Segment 1209B** Fin Feather Lake	**Segment 1209C** Carters Creek	**Segment 1209D** Unnamed Trib. To Bryan Municipal Lake	**Segment 1210** Lake Mexia	**Segment 1211** Yegua Creek	**Segment 1212** Sommerville Lake	**Segment 1212A** Middle Yegua Creek	**Segment 1213** Little River	**Segment 1214** San Gabriel River	**Segment 1215** Lampasas River Below Stillhouse Hollow Lake
DESIGNATED USE SUPPORT										
Contact Recreation	NA	N	NA	S	NA	S	S	S	S	NA
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Public Water Supply	X	X	X	S	S	S	X	T	S	S
Fish Consumption										
Human Health	N	NA	N	NA	NA	NA	NA	NA	NA	NA
Advisories/Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aquatic Life										
Dissolved Oxygen (Grab)	NA	S	NA	N	NA	S	S	S	S	NA
Dissolved Oxygen (24-Hour)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in Water	S	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	S	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	N	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GENERAL USE SUPPORT										
Water Temperature	X	X	X	S	NA	S	X	S	S	NA
pH	X	X	X	S	NA	S	X	S	S	NA
Chloride	X	X	X	S	NA	S	X	S	N	NA
Sulfate	X	X	X	S	NA	S	X	S	S	NA
Total Dissolved Solids	X	X	X	S	NA	S	X	S	S	S

S = Support; P = Partial Support; N = Nonsupport; T = Threatened; NC = No Concern; C = Concern;
NA = Not Assessed; X = Not Applicable

Brazos River Basin Graphical Summary (Continued)

Basin Map	Water Bodies									
	**Segment 1209B** Fin Feather Lake	**Segment 1209C** Carters Creek	**Segment 1209D** Unnamed Trib. To Bryan Municipal Lake	**Segment 1210** Lake Mexia	**Segment 1211** Yegua Creek	**Segment 1212** Sommerville Lake	**Segment 1212A** Middle Yegua Creek	**Segment 1213** Little River	**Segment 1214** San Gabriel River	**Segment 1215** Lampasas River Below Stillhouse Hollow Lake
WATER QUALITY CONCERNS										
Contact Recreation	NA	X	NA	X	NA	X	X	X	X	NA
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Fish Tissue	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment	C	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Nutrient Enrichment										
Ammonia Nitrogen	NA	NA	NC	NA	NA	NA	NC	NC	NC	NA
Nitrite + Nitrate Nitrogen	NA	NA	NA	C	NA	NA	NA	NC	NC	NA
Orthophosphorus	NA	NA	NA	NA	NA	NA	NA	NC	NC	NA
Total Phosphorus	NA	NA	C	NA	NA	NA	NC	NC	NC	NA
Chlorophyll *a*	NA	NA	NC	NA	NA	NA	NC	NC	NA	NA
Public Water Supply										
Finished Water Chloride	X	X	X	NC	NC	NC	X	NC	NC	NC
Finished Water Sulfate	X	X	X	NC	NC	NC	X	NC	NC	NC
Finished Water TDS	X	X	X	NC	NC	NC	X	NC	NC	NC
Surface Water Chloride	X	X	X	NC	NA	NC	X	NC	NC	NC
Surface Water Sulfate	X	X	X	NC	NA	NC	X	NC	NC	NA
Surface Water TDS	X	X	X	NC	NA	NC	X	NC	NC	NC
Aquatic Life										
Dissolved Oxygen	NA	X	NA	X	NA	X	X	X	X	NA
Metals in Water	X	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	X	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	X	NA	NA	NA	NA	NA	NA	NA	NA	NA

Brazos River Basin Graphical Summary

Basin Map	Water Bodies									
	**Segment 1216** Stillhouse Hollow Lake	**Segment 1217** Lampasas River Above Stillhouse Hollow Lake	**Segment 1217A** Rocky Creek	**Segment 1217B** Sulphur Creek	**Segment 1218** Nolan Creek/South Nolan Creek	**Segment 1219** Leon River Below Belton Lake	**Segment 1220** Belton Lake	**Segment 1220A** Cowhouse Creek	**Segment 1221** Leon River Below Proctor Lake	**Segment 1221B** South Llano River
DESIGNATED USE SUPPORT										
Contact Recreation	S	S	N	S	N	S	S	NA	N	S
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Public Water Supply	S	X	X	X	X	S	S	X	S	X
Fish Consumption										
Human Health	NA	NA	NA	NA	NA	S	NA	NA	S	NA
Advisories/Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aquatic Life										
Dissolved Oxygen (Grab)	S	S	N	S	S	S	S	S	S	S
Dissolved Oxygen (24-Hour)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in Water	NA	NA	NA	NA	NA	S	NA	NA	S	NA
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GENERAL USE SUPPORT										
Water Temperature	S	S	X	X	S	S	S	X	S	X
pH	S	S	X	X	S	S	S	X	S	X
Chloride	S	S	X	X	S	S	S	X	S	X
Sulfate	S	S	X	X	S	S	S	X	S	X
Total Dissolved Solids	S	S	X	X	S	S	S	X	N	X

S = Support; P = Partial Support; N = Nonsupport; T = Threatened; NC = No Concern; C = Concern;
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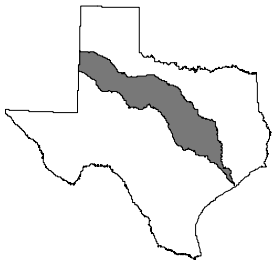
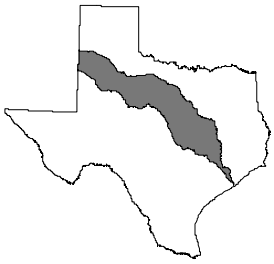
Brazos River Basin Graphical Summary (Continued)

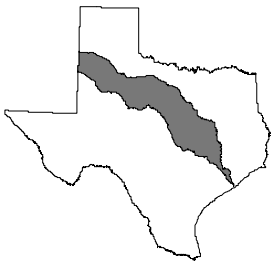
Basin Map	Water Bodies									
	**Segment 1216** Stillhouse Hollow Lake	**Segment 1217** Lampasas River Above Stillhouse Hollow Lake	**Segment 1217A** Rocky Creek	**Segment 1217B** Sulphur Creek	**Segment 1218** Nolan Creek/South Nolan Creek	**Segment 1219** Leon River Below Belton Lake	**Segment 1220** Belton Lake	**Segment 1220A** Cowhouse Creek	**Segment 1221** Leon River Below Proctor Lake	**Segment 1221B** South Llano River
WATER QUALITY CONCERNS										
Contact Recreation	X	X	X	X	X	X	X	NA	X	X
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Fish Tissue	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Nutrient Enrichment										
Ammonia Nitrogen	NC	NC	NA	NA	NC	NC	NC	NA	NC	NC
Nitrite + Nitrate Nitrogen	NC	NC	NC	NC	C	NC	NC	NA	C	C
Orthophosphorus	NC	NA	NA	NA	C	NC	NC	NC	NC	NA
Total Phosphorus	NC	NC	NA	NA	C	NC	N	NA	NC	NC
Chlorophyll *a*	NC	NC	NA	NA	NC	NC	NC	NA	NC	NC
Public Water Supply										
Finished Water Chloride	NC	X	X	X	X	NC	NC	X	NC	X
Finished Water Sulfate	NC	X	X	X	X	NC	NC	X	NC	X
Finished Water TDS	NC	X	X	X	X	NC	NC	X	NC	X
Surface Water Chloride	NC	X	X	X	X	NC	NC	X	NC	X
Surface Water Sulfate	NC	X	X	X	X	NC	NC	X	NC	X
Surface Water TDS	NC	X	X	X	X	NC	NC	X	NC	X
Aquatic Life										
Dissolved Oxygen	X	X	X	X	X	X	X	X	X	X
Metals in Water	NA	NA	NA	NA	NA	X	NA	NA	X	NA
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Brazos River Basin Graphical Summary

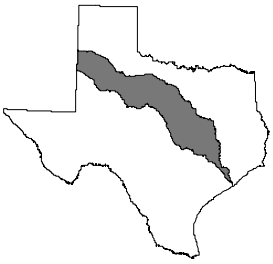
Basin Map	Water Bodies									
	**Segment 1222** Proctor Lake	**Segment 1222A** Duncan Creek	**Segment 1222B** Rush-Cooperas Creek	**Segment 1222C** Sabana River	**Segment 1223** Leon River Below Leon Reservoir	**Segment 1224** Leon Reservoir	**Segment 1224A** Lake Olden	**Segment 1225** Lake Waco	**Segment 1226** North Bosque River	**Segment 1226A** Duffau Creek
DESIGNATED USE SUPPORT										
Contact Recreation	S	N	S	S	S	NA	NA	S	N	N
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Public Water Supply	X	X	X	X	S	S	S	S	S	X
Fish Consumption										
Human Health	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Advisories/Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aquatic Life										
Dissolved Oxygen (Grab)	P	N	S	S	S	NA	NA	S	S	S
Dissolved Oxygen (24-Hour)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in Water	S	NA	NA	NA	S	NA	NA	NA	NA	NA
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GENERAL USE SUPPORT										
Water Temperature	S	X	X	X	S	NA	X	S	S	X
pH	S	X	X	X	S	NA	X	S	S	X
Chloride	S	X	X	X	S	S	X	S	S	X
Sulfate	S	X	X	X	S	S	X	S	S	X
Total Dissolved Solids	S	X	X	X	S	S	X	S	S	X

S = Support; P = Partial Support; N = Nonsupport; T = Threatened; NC = No Concern; C = Concern;
NA = Not Assessed; X = Not Applicable

Brazos River Basin Graphical Summary (Continued)

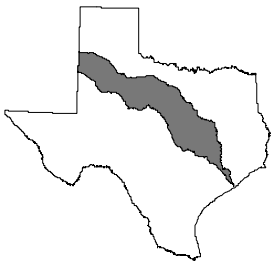
Basin Map	Water Bodies									
	**Segment 1222** Proctor Lake	**Segment 1222A** Duncan Creek	**Segment 1222B** Rush-Cooperas Creek	**Segment 1222C** Sabana River	**Segment 1223** Leon River Below Leon Reservoir	**Segment 1224** Leon Reservoir	**Segment 1224A** Lake Olden	**Segment 1225** Lake Waco	**Segment 1226** North Bosque River	**Segment 1226A** Duffau Creek
WATER QUALITY CONCERNS										
Contact Recreation	X	X	X	X	X	NA	NA	X	X	X
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Fish Tissue	NA	NA	NA	NA	NA	NA	NA	NA	NC	NA
Sediment	NA	NA	NA	NA	NA	NA	NA	NA	NC	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	C	NC
Nutrient Enrichment										
Ammonia Nitrogen	NC	NA	NA	NA	NC	NC	NA	NC	NC	NA
Nitrite + Nitrate Nitrogen	NC	C	NA	NA	NC	NA	NA	C	NC	NA
Orthophosphorus	NC	NA	NA	NA	NC	NA	NA	NC	NC	NA
Total Phosphorus	NC	NA	NA	NA	NC	NC	NA	NC	NC	NA
Chlorophyll *a*	C	NA	NA	NA	NC	NA	NA	C	C	NA
Public Water Supply										
Finished Water Chloride	NC	X	X	X	NC	NC	NA	NC	NC	X
Finished Water Sulfate	NC	X	X	X	NC	NC	NA	NC	NC	X
Finished Water TDS	NC	X	X	X	NC	NC	NA	NC	NC	X
Surface Water Chloride	NC	X	X	X	NC	NC	NA	NC	NC	X
Surface Water Sulfate	NC	X	X	X	NC	NC	NA	NC	NC	X
Surface Water TDS	NC	X	X	X	NC	NC	NA	NC	NC	X
Aquatic Life										
Dissolved Oxygen	X	X	X	X	X	NA	NA	X	X	X
Metals in Water	X	NA	NA	NA	X	NA	NA	NA	NA	NA
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Brazos River Basin Graphical Summary

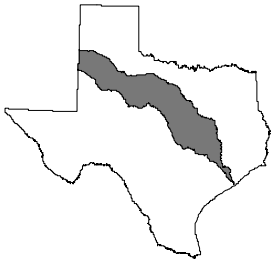
Basin Map	Water Bodies									
	**Segment 1226B** Green Creek	**Segment 1226C** Meridian Creek	**Segment 1226D** Neils Creek	**Segment 1227** Nolan River	**Segment 1228** Lake Pat Cleburne	**Segment 1229** Paluxy River/ North Paluxy River	**Segment 1230** Lake Palo Pinto	**Segment 1231** Lake Graham	**Segment 1232** Clear Fork Brazos River	**Segment 1232A** California Creek
DESIGNATED USE SUPPORT										
Contact Recreation	S	N	N	S	NA	S	NA	NA	S	S
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Public Water Supply	X	X	X	X	S	S	S	S	X	X
Fish Consumption										
Human Health	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Advisories/Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aquatic Life										
Dissolved Oxygen (Grab)	S	S	S	S	NA	S	NA	NA	S	S
Dissolved Oxygen (24-Hour)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GENERAL USE SUPPORT										
Water Temperature	X	X	X	S	NA	S	NA	NA	S	X
pH	X	X	X	S	NA	S	NA	NA	S	X
Chloride	X	X	X	S	NA	S	NA	NA	S	X
Sulfate	X	X	X	S	NA	S	NA	NA	S	X
Total Dissolved Solids	X	X	X	S	NA	N	NA	NA	S	X

S = Support; P = Partial Support; N = Nonsupport; T = Threatened; NC = No Concern; C = Concern;
NA = Not Assessed; X = Not Applicable

Brazos River Basin Graphical Summary (Continued)

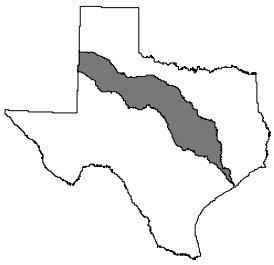
Basin Map	Water Bodies									
	**Segment 1226B** Green Creek	**Segment 1226C** Meridian Creek	**Segment 1226D** Neils Creek	**Segment 1227** Nolan River	**Segment 1228** Lake Pat Cleburne	**Segment 1229** Paluxy River/ North Paluxy River	**Segment 1230** Lake Palo Pinto	**Segment 1231** Lake Graham	**Segment 1232** Clear Fork Brazos River	**Segment 1232A** California Creek
WATER QUALITY CONCERNS										
Contact Recreation	X	X	X	X	NA	X	NA	NA	X	X
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Fish Tissue	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Nutrient Enrichment										
Ammonia Nitrogen	NA	NA	NA	NC	NA	NC	NA	NA	NC	NC
Nitrite + Nitrate Nitrogen	NC	NC	NA	NC	NA	NC	NA	NA	NC	C
Orthophosphorus	NA	NA	NA	C	NA	NC	NA	NA	NC	NC
Total Phosphorus	NA	NA	NA	NC	NA	NC	NA	NA	NC	NC
Chlorophyll *a*	NA	NA	NA	NC	NA	NC	NA	NA	C	C
Public Water Supply										
Finished Water Chloride	X	X	X	X	NC	NC	NC	NC	X	X
Finished Water Sulfate	X	X	X	X	NC	NC	NC	NC	X	X
Finished Water TDS	X	X	X	X	NC	NC	NC	NC	X	X
Surface Water Chloride	X	X	X	X	NA	NC	NA	NA	X	X
Surface Water Sulfate	X	X	X	X	NA	NC	NA	NA	X	X
Surface Water TDS	X	X	X	X	NA	NC	NA	NA	X	X
Aquatic Life										
Dissolved Oxygen	X	X	X	X	NA	X	NA	NA	X	X
Metals in Water	X	X	X	X	X	X	X	X	X	NA
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Brazos River Basin Graphical Summary

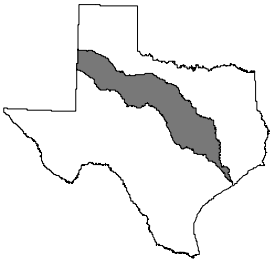
Basin Map	Water Bodies									
	**Segment 1232B** Deadman Creek	**Segment 1233** Hubbard Creek Reservoir	**Segment 1234** Lake Cisco	**Segment 1235** Lake Stamford	**Segment 1236** Fort Phantom Hill Reservoir	**Segment 1237** Lake Sweetwater	**Segment 1238** Salt Fork Brazos River	**Segment 1239** White River	**Segment 1240** White River Lake	**Segment 1241** Double Mountain Fork Brazos River
DESIGNATED USE SUPPORT										
Contact Recreation	S	NA	NA	NA	NA	NA	S	S	NA	S
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Public Water Supply	X	S	S	S	S	S	X	X	S	S
Fish Consumption										
Human Health	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Advisories/Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aquatic Life										
Dissolved Oxygen (Grab)	S	S	NA	NA	NA	NA	S	S	NA	S
Dissolved Oxygen (24-Hour)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GENERAL USE SUPPORT										
Water Temperature	X	S	NA	NA	NA	NA	S	S	NA	S
pH	X	S	NA	NA	NA	NA	S	S	NA	S
Chloride	X	S	NA	NA	NA	NA	S	S	NA	S
Sulfate	X	N	NA	NA	NA	NA	S	S	NA	S
Total Dissolved Solids	X	NA	NA	NA	NA	NA	S	S	NA	S

NS = Support; P = Partial Support; N = Nonsupport; T = Threatened; NC = No Concern; C = Concern;
NA = Not Assessed; X = Not Applicable

Brazos River Basin Graphical Summary (Continued)

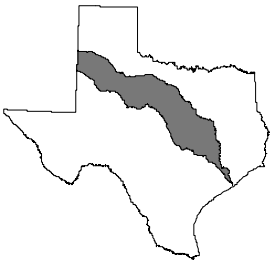
Basin Map	Water Bodies									
	**Segment 1232B** Deadman Creek	**Segment 1233** Hubbard Creek Reservoir	**Segment 1234** Lake Cisco	**Segment 1235** Lake Stamford	**Segment 1236** Fort Phantom Hill Reservoir	**Segment 1237** Lake Sweetwater	**Segment 1238** Salt Fork Brazos River	**Segment 1239** White River	**Segment 1240** White River Lake	**Segment 1241** Double Mountain Fork Brazos River
WATER QUALITY CONCERNS										
Contact Recreation	X	NA	NA	NA	NA	NA	X	X	NA	X
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Fish Tissue	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Nutrient Enrichment										
Ammonia Nitrogen	C	NA	NA	NA	NA	NA	NA	NA	NA	NC
Nitrite + Nitrate Nitrogen	NA	NA	NA	NA	NA	NC	NC	NC	NA	NC
Orthophosphorus	NA	NC	NA	NA	NA	NC	NC	NC	NA	NC
Total Phosphorus	C	NA	NA	NA	NA	NC	NC	NC	NA	NC
Chlorophyll *a*	NC	NA	NA	NA	NA	NA	NC	NC	NA	NC
Public Water Supply										
Finished Water Chloride	X	NC	NC	NC	NC	NC	X	X	NC	X
Finished Water Sulfate	X	NC	NC	NC	NC	NC	X	X	NC	X
Finished Water TDS	X	NC	NC	NC	NC	NC	X	X	NC	X
Surface Water Chloride	X	NC	NA	NA	NA	NA	X	X	NA	X
Surface Water Sulfate	X	NC	NA	NA	NA	NA	X	X	NA	X
Surface Water TDS	X	NA	NA	NA	NA	NA	X	X	NA	X
Aquatic Life										
Dissolved Oxygen	X	X	NA	NA	NA	NA	X	X	NA	X
Metals in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Brazos River Basin Graphical Summary

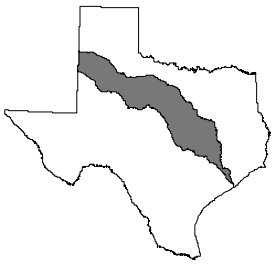
Basin Map	Water Bodies									
	**Segment 1242** Brazos River Below Whitney Lake	**Segment 1242A** Marlin City Lake	**Segment 1243** Salado Creek	**Segment 1244** Brushy Creek	**Segment 1244A** North Fork Brushy Creek	**Segment 1245** Upper Oyster Creek	**Segment 1246** Middle Bosque/ South Bosque River	**Segment 1247** Granger Lake	**Segment 1248** San Gabriel/ North Fork San Gabriel River	**Segment 1249** Lake Georgetown
DESIGNATED USE SUPPORT										
Contact Recreation	N	NA	S	S	NA	N	S	S	S	S
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Public Water Supply	S	S	S	S	X	S	X	S	S	S
Fish Consumption										
Human Health	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Advisories/Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aquatic Life										
Dissolved Oxygen (Grab)	S	NA	P	S	S	P	S	S	S	S
Dissolved Oxygen (24-Hour)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in Water	S	NA	NA	NA	NA	S	NA	NA	NA	NA
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GENERAL USE SUPPORT										
Water Temperature	S	X	S	S	X	S	S	S	S	S
pH	S	X	S	S	X	S	S	S	S	S
Chloride	S	X	S	S	X	S	S	S	S	S
Sulfate	S	X	S	S	X	S	S	S	S	S
Total Dissolved Solids	S	X	N	N	X	S	S	S	S	S

S = Support; P = Partial Support; N = Nonsupport; T = Threatened; NC = No Concern; C = Concern;
NA = Not Assessed; X = Not Applicable

Brazos River Basin Graphical Summary (Continued)

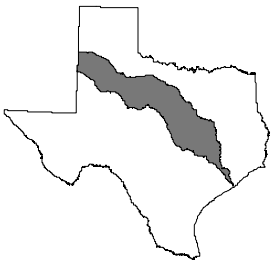
Basin Map	Water Bodies									
	**Segment 1242** Brazos River Below Whitney Lake	**Segment 1242A** Marlin City Lake	**Segment 1243** Salado Creek	**Segment 1244** Brushy Creek	**Segment 1244A** North Fork Brushy Creek	**Segment 1245** Upper Oyster Creek	**Segment 1246** Middle Bosque/ South Bosque River	**Segment 1247** Granger Lake	**Segment 1248** San Gabriel/ North Fork San Gabriel River	**Segment 1249** Lake Georgetown
WATER QUALITY CONCERNS										
Contact Recreation	X	NA	X	X	X	X	X	X	X	X
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Fish Tissue	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment	C	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Nutrient Enrichment										
Ammonia Nitrogen	NC	NA	NC	C	NC	NC	NC	NC	NC	NC
Nitrite + Nitrate Nitrogen	NC	NA	NC	C	NA	NC	C	C	NC	NC
Orthophosphorus	NC	NA	NC	NC	NA	NC	NA	NC	NC	NA
Total Phosphorus	NC	NA	NC	C	NC	NC	NC	NC	NC	NC
Chlorophyll *a*	NC	NA	NC	NC	NC	NC	NC	NC	NC	NC
Public Water Supply										
Finished Water Chloride	NC	NC	NC	NC	X	NC	X	NC	NC	NC
Finished Water Sulfate	NC	NC	NC	NC	X	NC	X	NC	NC	NC
Finished Water TDS	NC	NC	NC	NC	X	NC	X	NC	NC	NC
Surface Water Chloride	NC	NA	NC	NC	X	NC	X	NC	NC	NC
Surface Water Sulfate	NC	NA	NC	NC	X	NC	X	NC	NC	NC
Surface Water TDS	NC	NA	NC	NC	X	NC	X	NC	NC	NC
Aquatic Life										
Dissolved Oxygen	X	NA	X	X	X	X	X	X	X	X
Metals in Water	X	NA	NA	NA	NA	X	NA	NA	NA	NA
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Brazos River Basin Graphical Summary

Basin Map	Water Bodies									
	**Segment 1250** South Fork San Gabriel River	**Segment 1251** North Fork San Gabriel River	**Segment 1252** Lake Limestone	**Segment 1253** Navasota River Below Lake Mexia	**Segment 1254** Aquilla Reservoir	**Segment 1255** Upper North Bosque River				
DESIGNATED USE SUPPORT										
Contact Recreation	S	S	S	NA	S	N				
Noncontact Recreation	X	X	X	X	X	X				
Public Water Supply	S	S	S	S	N	X				
Fish Consumption										
Human Health	NA	NA	NA	NA	NA	NA				
Advisories/Closures	NA	NA	NA	NA	NA	NA				
Aquatic Life										
Dissolved Oxygen (Grab)	S	S	S	S	P	S				
Dissolved Oxygen (24-Hour)	NA	NA	NA	NA	NA	NA				
Metals in Water	NA	NA	NA	NA	NA	NA				
Organics in Water	NA	NA	NA	NA	NA	NA				
Water Toxicity Tests	NA	NA	NA	NA	NA	NA				
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA				
Macrobenthos	NA	NA	NA	NA	NA	NA				
Fish	NA	NA	NA	NA	NA	NA				
GENERAL USE SUPPORT										
Water Temperature	S	S	S	S	S	S				
pH	S	S	S	S	S	S				
Chloride	S	S	S	NA	S	N				
Sulfate	S	S	S	NA	S	N				
Total Dissolved Solids	S	S	S	S	S	N				

S = Support; P = Partial Support; N = Nonsupport; T = Threatened; NC = No Concern; C = Concern;
NA = Not Assessed; X = Not Applicable

Brazos River Basin Graphical Summary (Continued)

Basin Map	Water Bodies									
	**Segment 1250** South Fork San Gabriel River	**Segment 1251** North Fork San Gabriel River	**Segment 1252** Lake Limestone	**Segment 1253** Navasota River Below Lake Mexia	**Segment 1254** Aquilla Reservoir	**Segment 1255** Upper North Bosque River				
WATER QUALITY CONCERNS										
Contact Recreation	X	X	X	NA	X	X				
Noncontact Recreation	X	X	X	X	X	X				
Fish Tissue	NA	NA	NA	NA	NA	NA				
Sediment	NA	NA	NA	NA	NA	NA				
Narrative	NC	NC	NC	NC	NC	C				
Nutrient Enrichment										
Ammonia Nitrogen	NC	NC	NC	NA	NC	C				
Nitrite + Nitrate Nitrogen	NC	NA	NC	NA	C	C				
Orthophosphorus	NC	NA	NC	NA	NA	C				
Total Phosphorus	NC	NC	NA	NA	NC	C				
Chlorophyll *a*	NC	NC	NC	NA	NC	C				
Public Water Supply										
Finished Water Chloride	NC	NC	NC	NC	NC	X				
Finished Water Sulfate	NC	NC	NC	NC	NC	X				
Finished Water TDS	NC	NC	NC	NC	NC	X				
Surface Water Chloride	NC	NC	NC	NA	NC	X				
Surface Water Sulfate	NC	NC	NC	NA	NC	X				
Surface Water TDS	NC	NC	NC	NC	NC	X				
Aquatic Life										
Dissolved Oxygen	X	X	X	X	X	X				
Metals in Water	NA	NA	NA	NA	NA	NA				
Organics in Water	NA	NA	NA	NA	NA	NA				
Water Toxicity Tests	NA	NA	NA	NA	NA	NA				
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA				

Brazos River Basin

Segment 1201 - Brazos River Tidal

Water body description: From the confluence with the Gulf of Mexico in Brazoria County to a point 100 meters (110 miles) upstream of SH 332 in Brazoria County

Water body classification: Classified

Water body type: Tidal Stream

Water body length / area: 25.00 Miles

Use support summary: Available data indicate that the aquatic life, fish consumption, public water supply, and general uses are supported. The contact recreation use was not assessed due to insufficient data.

Water quality concerns summary: Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
11843	Brazos River Tidal at SH 36 NW of Freeport
14170	Brazos River Tidal at Bryan Mound where river makes a bend
14171	Brazos River Tidal at pipeline crossing downstream of Freeport central WWTP
14172	Brazos River tidal midway between SH 36 and Dow Plant A effluent canal
14173	Brazos River Tidal midway between Plant A and Plant B effluent canals
14174	Brazos River Tidal 1.2 km upstream of Plant B effluent canal
14175	Brazos River Tidal 4.2 km upstream of Plant B effluent canal
14178	Brazos River Tidal 6.7 km upstream from Lake Jackson WWTP
14179	Brazos River Tidal under FM 521 in Brazoria

Published studies

Publication	Date	Author
IS 4 Brazos River	March 1977	Kirkpatrick, J.

Wastewater dischargers

Permit type	Number of outfalls
Agriculture	19
Domestic	7
Industrial	51

Historical fish kills

Start date	Location	Fish killed	Suspected cause
05/06/1995	Dow Chemical Plant in Freeport at the plant A canal 601 outfall	65	Physical Damage/Trauma
06/07/1995	Dow Chemical in the 601 outfall waste water canal	998	Temperature
06/26/1995	Dow Chemical Plant Dock A in Freeport, TX along the Brazos River	1,280	Low Dissolved Oxygen
08/08/1995	Dow Chemical, Outfall 601A Canal	1,376	Temperature
08/08/1996	Brazos River, SH 36 bridge to 3 miles upstream	5,000	Low Dissolved Oxygen

Brazos River Basin

Segment 1202 - Brazos River Below Navasota River

Water body description: From a point 100 meters (110 miles) upstream of SH 332 in Brazoria County to the confluence of the Navasota River in Grimes County

Water body classification: Classified

Water body type: Freshwater Stream

Water body length / area: 199.00 Miles

Use support summary: Available data indicate that all uses are supported within a 75-mile reach in the Hempstead, Wallis, and Richmond area.

Water quality concerns summary: Chlorophyll *a* is a concern upstream of the Hempstead area.

Monitoring sites used in the assessment

Station	Station Description
11846	Brazos River at US 90A in Richmond
11848	Brazos River at FM 1093 northeast of Wallis
11850	Brazos River at US 290 6.5 mi. NW of Hempstead

Wastewater dischargers

Permit type	Number of outfalls
Agriculture	2
Domestic	51
Industrial	38

Historical fish kills

Start date	Location	Fish killed	Suspected cause
01/16/1997	Brazos River from SH 36 upstream to two miles above plant B	50,671	Temperature

Brazos River Basin

Segment 1203 - Whitney Lake

Water body description:	From Whitney Dam in Bosque/Hill County to a point immediately upstream of the confluence of Camp Creek on the Brazos River Arm in Bosque/Johnson County and to a point immediately upstream of the confluence of Rock Creek on the Nolan River Arm in Hill County up to the normal pool elevation of 533 feet (impounds Brazos River)
Water body classification:	Classified
Water body type:	Reservoir
Water body length / area:	23,560 Acres
Use support summary:	Available data indicate the aquatic life, contact recreation, public water supply, and general uses are supported. The fish consumption use was not assessed due to insufficient data.
Water quality concerns summary:	Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
11851	Lake Whitney near dam
11852	Lake Whitney near Lake Whitney State Park
11853	Lake Whitney at SH 174 northeast of Morgan
11854	Lake Whitney Nolands River arm

Published studies

Publication	Date	Author
IMS 33 Lake Whitney	March 1975	Ottmers, D.

Wastewater dischargers

Permit type	Number of outfalls
Agriculture	4
Domestic	12
Industrial	2

Brazos River Basin

Segment 1204 - Brazos River Below Lake Granbury

Water body description:	From a point immediately upstream of the confluence of Camp Creek in Bosque/Johnson County to DeCordova Bend Dam in Hood County
Water body classification:	Classified
Water body type:	Freshwater Stream
Water body length / area:	39.00 Miles

Use support summary:	Available data indicate the aquatic life, contact recreation, public water supply, and general uses are supported. The fish consumption use was not assessed due to insufficient data.
Water quality concerns summary:	Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
11856	Brazos River Bridge on US 67 NE of Glen Rose

Wastewater dischargers

Permit type	Number of outfalls
Agriculture	12
Domestic	9
Industrial	3

Historical fish kills

Start date	Location	Fish killed	Suspected cause
09/15/1994	Island Creek at discharge site of Grandview STP	100	Low Dissolved Oxygen
07/18/1995	Squaw Creek Reservoir - scattered all over lake	50	Temperature
08/29/1995	Squaw Creek Reservoir - at Commanche Peak discharge canal.	200	Temperature
09/01/1995	Squaw Creek Reservoir	1,000	Temperature

Brazos River Basin

Segment 1205 - Lake Granbury

Water body description: From DeCordova Bend Dam in Hood County to a point 100 meters (110 yards) upstream of FM 2580 in Parker County, up to normal pool elevation of 693 feet (impounds Brazos River)

Water body classification: Classified

Water body type: Reservoir

Water body length / area: 8,700 Acres

Use support summary: Available data indicate the aquatic life, public water supply, and general uses are supported. The contact recreation and fish consumption uses were not assessed due to insufficient data.

Water quality concerns summary: Average chloride and total dissolved solids in surface water are drinking water concerns. Public water supply systems have experienced increased costs for demineralization due to high concentrations of total dissolved solids.

Monitoring sites used in the assessment

Station	Station Description
11860	Lake Granbury near dam
11861	Lake Granbury at US 377 east of Granbury
11862	Lake Granbury at FM 51 north of Granbury
13926	Lake Granbury USGS site AC
13927	Lake Granbury USGS site AL
13928	Lake Granbury USGS site BL
13929	Lake Granbury USGS site BC
13930	Lake Granbury USGS site BR
13931	Lake Granbury USGS site CC
13932	Lake Granbury USGS site DC

Monitoring sites, continued

Station	Station Description
13933	Lake Granbury USGS site DL
13934	Lake Granbury USGS site EC
13935	Lake Granbury USGS site FC
13936	Lake Granbury USGS site GC
13937	Lake Granbury USGS site HC
13938	Lake Granbury USGS site IC
13939	Lake Granbury USGS site JC
13940	Lake Granbury USGS site KC

Published studies

Publication	Date	Author
IMS 37 Lake Granbury	Feb. 1976	Ezell, C.

Wastewater dischargers

Permit type	Number of outfalls
Agriculture	1
Domestic	5
Industrial	6

Brazos River Basin

Segment 1206 - Brazos River Below Possum Kingdom Lake

Water body description:	From a point 100 meters (110 yards) upstream of FM 2580 in Parker County to Morris Shepard Dam in Palo Pinto County
Water body classification:	Classified
Water body type:	Freshwater Stream
Water body length / area:	109.00 Miles
Use support summary:	Available data indicate the aquatic life, contact recreation, and general uses are supported. The fish consumption use was not assessed due to insufficient data.
Water quality concerns summary:	Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
11863	Brazos River at US 281 south of Mineral Wells
11864	Brazos River at FM 4 north of Palo pinto
13543	Brazos River at FM 1189 south of Dennis

Wastewater dischargers

Permit type	Number of outfalls
Agriculture	8
Domestic	15
Industrial	12

Brazos River Basin

Segment 1207 - Possum Kingdom Lake

Water body description:	From Morris Shepard Dam in Palo Pinto County to a point immediately upstream of the confluence of Cove Creek at Salem Bend in Young County, up to the normal pool elevation of 1000 feet (impounds Brazos River)
Water body classification:	Classified
Water body type:	Reservoir
Water body length / area:	19,800 Acres
Use support summary:	Available data indicate the aquatic life, public water supply, and general uses are supported. The fish consumption and contact recreation uses were not assessed due to insufficient data.
Water quality concerns summary:	Average chloride, sulfate and total dissolved solids in surface water are drinking water concerns. Public water supply systems have experienced increased costs for demineralization due to high concentrations of dissolved solids.

Monitoring sites used in the assessment

Station	Station Description
11865	Possum Kingdom Reservoir near dam
11866	Possum Kingdom Reservoir near Johnson Road
11867	Possum Kingdom Reservoir near end of FM 2951
11868	Possum Kingdom Reservoir Deep Elm Creek arm
14018	Possum Kingdom Lake USGS site P03
14019	Possum Kingdom Lake USGS site P05
14020	Possum Kingdom Lake USGS site CC
14021	Possum Kingdom Lake USGS site AR
14022	Possum Kingdom Lake USGS site AC
14023	Possum Kingdom Lake USGS site BR

Monitoring sites, continued

Station	Station Description
14024	Possum Kingdom Lake USGS site BC
14025	Possum Kingdom Lake USGS site P07
14026	Possum Kingdom Lake USGS site DC
14027	Possum Kingdom Lake USGS site EC
14028	Possum Kingdom Lake USGS site FC
14029	Possum Kingdom Lake USGS site GC

Published studies

Publication	Date	Author
IMS 32 Possum Kingdom Reservoir	Jan. 1975	Ottmers, D.

Wastewater dischargers

Permit type	Number of outfalls
Domestic	7
Industrial	1

Brazos River Basin

Segment 1208 - Brazos River Above Possum Kingdom Lake

Water body description: From a point immediately upstream of the confluence of Cove Creek at Salem Bend in Young County to the confluence of the Double Mountain Fork Brazos River and the Salt Fork Brazos River in Stonewall County

Water body classification: Classified

Water body type: Freshwater Stream

Water body length / area: 189.00 Miles

Use support summary: Available data indicate the aquatic life, contact recreation, and general uses are supported in a 25-mile reach near the city of Graham. The fish consumption use was not assessed due to insufficient data.

Water quality concerns summary: Chlorophyll *a* is a concern in a 25 mile reach near the city of Graham.

Monitoring sites used in the assessment

Station	Station Description
11869	Brazos River at FM 1287 south of Graham
11871	Brazos River at US 183-283 at Seymour

Wastewater dischargers

Permit type	Number of outfalls
Agriculture	4
Domestic	18
Industrial	4

Historical fish kills

Start date	Location	Fish killed	Suspected cause
04/13/1995	Benjamin City lake - in Benjamin, TX	220	Organic compound
11/05/1997	Brazos River - Gooseneck Bend to Wild Bend	640,647	Disease

Brazos River Basin

Segment 1209 - Navasota River Below Lake Limestone

Water body description: From the confluence with the Brazos River in Grimes County to Sterling C. Robertson Dam in Leon/Robertson County

Water body classification: Classified

Water body type: Freshwater Stream

Water body length / area: 165.00 Miles

Use support summary: Available data indicate the public water supply use is supported. Aquatic life, contact recreation, and general uses are supported in two separate 25-mile reaches near the cities of Navasota and Bryan. The fish consumption use was not assessed due to insufficient data.

Water quality concerns summary: Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
11872	Navasota River at SH 105 (US 90), west of Navasota
11875	Navasota River at SH 30 east of College Station
11876	Navasota River Bridge on US 190 northeast of Bryan

Published studies

Publication	Date	Author
IS 88-03 Navasota River	July 1987	Kirkpatrick, J.
IS 89-01 Navasota River	July 1988	Kirkpatrick, J.

Wastewater dischargers

Permit type	Number of outfalls
Agriculture	4
Domestic	22
Industrial	60

Historical fish kills

Start date	Location	Fish killed	Suspected cause
09/22/1995	Kosse City Park Pond	27	Disease

Brazos River Basin

Segment 1209A - Bryan Municipal Lake (unclassified water body)

Water body description:	From the Bryan Utilities Dam up to normal pool elevation northwest of Bryan in Brazos County
Water body classification:	Unclassified
Water body type:	Reservoir
Water body length / area:	18 Acres

Use support summary:	The aquatic life use is not supported due to significant effects in sediment toxicity tests. The fish consumption use is not supported due to exceedance of the human health criterion by the average arsenic concentration in water. The contact recreation use was not assessed due to insufficient data.
Water quality concerns summary:	Arsenic, barium, chromium, copper, lead, mercury, and zinc in sediment are concerns.
Additional information:	Projects are underway for arsenic in water and ambient toxicity in sediment to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at *www.tnrcc.state.tx.us/water/quality/tmdl/*.

Monitoring sites used in the assessment

Station	Station Description
11792	Bryan Municipal Lake near dam spillway

Brazos River Basin

Segment 1209B - Fin Feather Lake (unclassified water body)

Water body description:	From Fin Feather Dam up to normal pool elevation in northwest Bryan in Brazos County
Water body classification:	Unclassified
Water body type:	Reservoir
Water body length / area:	25 Acres
Use support summary:	The aquatic life use is not supported due to significant effects in sediment toxicity tests. The fish consumption use is not supported due to exceedance of the human health criterion by the average arsenic concentration in water. The contact recreation use was not assessed due to insufficient data.
Water quality concerns summary:	Arsenic, barium, chromium, copper, lead, mercury, nickel, selenium and zinc in sediment are concerns.
Additional information:	Projects are underway for arsenic in water and ambient toxicity in sediment to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at *www.tnrcc.state.tx.us/water/quality/tmdl/*.

Monitoring sites used in the assessment

Station	Station Description
11798	Fin Feather Lake near dam spillway
11800	Fin Feather Lake headwater

Brazos River Basin

Segment 1209C - Carters Creek (unclassified water body)

Water body description:	From the confluence of the Navasota River southeast of College Station in Brazos County to the upstream perennial portion of the stream north of Bryan in Brazos County
Water body classification:	Unclassified
Water body type:	Freshwater Stream
Water body length / area:	17.00 Miles
Use support summary:	The contact recreation use is not supported due to elevated fecal coliform densities. The aquatic life use is supported. The fish consumption use was not assessed due to insufficient data.
Water quality concerns summary:	Available data indicate that there are no water quality concerns.
Additional information:	A project is scheduled for fecal coliform bacteria to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at *www.tnrcc.state.tx.us/water/quality/tmdl/*.

Monitoring sites used in the assessment

Station	Station Description
11785	Carters Creek SE of College Station at Bird Pond Road, 2 mi. south of SH 30

Brazos River Basin

Segment 1209D - Unnamed tributary to Bryan Municipal Lake (unclassified water body)

Water body description:	From the confluence of Bryan Municipal Lake northwest of Bryan in Bryan County to the upstream perennial portion of the stream northwest of Bryan in Brazos County
Water body classification:	Unclassified
Water body type:	Freshwater Stream
Water body length / area:	0.50 Miles
Use support summary:	The fish consumption use is not supported due to exceedance of the human health criterion by the average concentration of arsenic in water.
Water quality concerns summary:	Total phosphorus is a concern.
Additional information:	A project is underway for arsenic in water to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at *www.tnrcc.state.tx.us/water/quality/tmdl/*.

Monitoring sites used in the assessment

Station	Station Description
11795	Unnamed tributary to Bryan Municipal Lake at Duncan Street in the City of Bryan

Brazos River Basin

Segment 1210 - Lake Mexia

Water body description:	From Bistone Dam in Limestone County up to the normal pool elevation of 448.3 feet (impounds Navasota River)
Water body classification:	Classified
Water body type:	Reservoir
Water body length / area:	1,200 Acres
Use support summary:	The aquatic life use is not supported due to depressed dissolved oxygen concentrations. The contact recreation, public water supply, and general uses are supported. The fish consumption use was not assessed due to insufficient data.
Water quality concerns summary:	Nitrite + nitrate nitrogen is a concern.
Additional information:	A project is scheduled for dissolved oxygen to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at *www.tnrcc.state.tx.us/water/quality/tmdl/*.

Monitoring sites used in the assessment

Station	Station Description
11878	Lake Mexia near dam
11879	Lake Mexia at headwater
14238	Lake Mexia at FM 3437 Bridge

Wastewater dischargers

Permit type	Number of outfalls
Domestic	1

Brazos River Basin

Segment 1211 - Yegua Creek

Water body description:	From the confluence with the Brazos River in Burleson/ Washington County to Somerville Dam in Burleson/ Washington County
Water body classification:	Classified
Water body type:	Freshwater Stream
Water body length / area:	20.00 Miles
Use support summary:	Available data indicate that the public water supply use is supported. Other uses were not assessed due to insufficient data.
Water quality concerns summary:	Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
11880	Yegua Creek at FM 50 south of Clay
13649	Yegua Creek at SH 36, 2.0 mi. south of Somerville, 1.0 mi. downstream from Somerville Lake

Wastewater dischargers

Permit type	Number of outfalls
Domestic	2

Brazos River Basin

Segment 1212 - Somerville Lake

Water body description:	From Somerville Dam in Burleson/Washington County up to normal pool elevation of 238 feet (impounds Yegua Creek)
Water body classification:	Classified
Water body type:	Reservoir
Water body length / area:	11,460 Acres

Use support summary:	Available data indicate the aquatic life, contact recreation, public water supply, and general uses are supported. The fish consumption use was not assessed due to insufficient data.
Water quality concerns summary:	Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
11881	Somerville Lake near dam
11882	Somerville Lake near Headwater at Somerville State Park

Published studies

Publication	Date	Author
IMS 20 Lake Somerville	Nov. 1974	Petrick, D.

Wastewater dischargers

Permit type	Number of outfalls
Agriculture	2
Domestic	22
Industrial	25

Historical fish kills

Start date	Location	Fish killed	Suspected cause
08/30/1998	Lake Sommerville at Birch Creek Park	193,953	Low Dissolved Oxygen

Brazos River Basin

Segment 1212A - Middle Yegua Creek (unclassified water body)

Water body description:	From the confluence of Somerville Lake east of Giddings in Lee County of the upstream perennial portion of the stream west of Lexington in Lee County
Water body classification:	Unclassified
Water body type:	Freshwater Stream
Water body length / area:	20.00 Miles
Use support summary:	Available data indicate the aquatic life and contact recreation uses are supported. The fish consumption use was not assessed due to insufficient data.
Water quality concerns summary:	Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
11839	Middle Yegua Creek at Lee CR 117, 4.8 mi. south of Dime Box

Brazos River Basin

Segment 1213 - Little River

Water body description:	From the confluence with the Brazos River in Milam County to the confluence of the Leon River and the Lampasas River in Bell County
Water body classification:	Classified
Water body type:	Freshwater Stream
Water body length / area:	104.00 Miles

Use support summary:	All water quality measurements currently support use as a public water supply. However, atrazine concentrations in finished drinking water exceed 50% of the maximum contaminant level, indicating the use is threatened. The aquatic life, contact recreation, and general uses are supported in a 25-mile reach near Cameron. The fish consumption use was not assessed due to insufficient data.
Water quality concerns summary:	Available data indicate that there are no water quality concerns.
Additional information:	A project is scheduled for atrazine to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at *www.tnrcc.state.tx.us/water/quality/tmdl/*.

Monitoring sites used in the assessment

Station	Station Description
11888	Little River at US 77 Bridge southeast of Cameron
13544	Little River at FM 1600 SW of Cameron

Wastewater dischargers

Permit type	Number of outfalls
Domestic	10
Industrial	2

Historical fish kills

Start date	Location	Fish killed	Suspected cause
10/01/1995	Little River downstream of Buckholtz, TX	5	Low Dissolved Oxygen

Brazos River Basin

Segment 1214 - San Gabriel River

Water body description:	From the confluence with the Little River in Milam County to Granger Lake Dam in Williamson County
Water body classification:	Classified
Water body type:	Freshwater Stream
Water body length / area:	34.00 Miles

Use support summary:	General uses are not supported due to an elevated average concentration of chloride. The aquatic life, public water supply, and contact recreation uses are supported. The fish consumption use was not assessed due to insufficient data.
Water quality concerns summary:	Available data indicate that there are no water quality concerns.
Additional information:	A project is underway for chloride to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at *www.tnrcc.state.tx.us/water/quality/tmdl/*.

Monitoring sites used in the assessment

Station	Station Description
11892	San Gabriel River at FM 487 NW of Rockdale

Published studies

Publication	Date	Author
IS 16 San Gabriel/Brushy Creek	Oct. 1978	Ezell, C.
IS 40 San Gabriel River	Sept. 1979	Ezell, C.

Brazos River Basin

Segment 1215 - Lampasas River Below Stillhouse Hollow Lake

Water body description:	From the confluence with the Leon River in Bell County to Stillhouse Hollow Lake Dam in Bell County
Water body classification:	Classified
Water body type:	Freshwater Stream
Water body length / area:	17.00 Miles
Use support summary:	Available data indicate that the public water supply use is supported. Other uses were not assessed due to insufficient data.
Water quality concerns summary:	Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
13547	Lampasas River at Dice Grove Road SW of Fort Griffin

Brazos River Basin

Segment 1216 - Stillhouse Hollow Lake

Water body description:	From Stillhouse Hollow Lake Dam in Bell County to a point immediately upstream of the confluence of Rock Creek in Bell County, up to normal pool elevation of 622 feet (impounds Lampasas River)
Water body classification:	Classified
Water body type:	Reservoir
Water body length / area:	6,430 Acres
Use support summary:	Available data indicate the aquatic life, contact recreation, public water supply, and general uses are supported. The fish consumption use was not assessed due to insufficient data.
Water quality concerns summary:	Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
11894	Stillhouse Hollow Lake near dam
11895	Stillhouse Hollow Lake at Headwater
14056	Stillhouse Hollow Lake USGS site BC
14057	Stillhouse Hollow Lake USGS site EC
14058	Stillhouse Hollow Lake USGS site CC
14059	Stillhouse Hollow Lake USGS site AC
14060	Stillhouse Hollow Lake USGS site DC

Brazos River Basin

Segment 1217 - Lampasas River Above Stillhouse Hollow Lake

Water body description: From a point immediately upstream of the confluence of Rock Creek in Bell County to FM 2005 in Hamilton County

Water body classification: Classified

Water body type: Freshwater Stream

Water body length / area: 94.00 Miles

Use support summary: Available data indicate the aquatic life, contact recreation, and general uses are supported. The fish consumption use was not assessed due to insufficient data.

Water quality concerns summary: Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
11896	Lampasas River at SH 195 south of Killeen
11897	Lampasas River at US 190 near Kempner

Wastewater dischargers

Permit type	Number of outfalls
Agriculture	14
Domestic	2

Historical fish kills

Start date	Location	Fish killed	Suspected cause
06/19/1994	Lampasas River - near Highway 190 at Kempner in East part of county	100	Organic compound

Brazos River Basin

Segment 1217A - Rocky Creek (unclassified water body)

Water body description:	From the confluence of the Lampasas River north of Okalla in Burnet County to the confluences of the North and South Rocky Creeks south of Okalla in Burnet County
Water body classification:	Unclassified
Water body type:	Freshwater Stream
Water body length / area:	12.00 Miles

Use support summary: The aquatic life use is not supported in a 4-mile reach near the city of Okalla due to depressed dissolved oxygen concentrations. The contact recreation use is not supported due to elevated fecal coliform densities throughout the entire segment. The fish consumption use was not assessed due to insufficient data.

Water quality concerns summary: Available data indicate that there are no water quality concerns.

Additional information: A project is underway for dissolved oxygen to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program.

A project is scheduled for fecal coliform bacteria to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program.

For more information on specific TMDL projects, visit the TNRCC Web site at *www.tnrcc.state.tx.us/water/quality/tmdl/*.

Monitoring sites used in the assessment

Station	Station Description
11724	Rocky Creek at FM 963 near Okalla
11725	South Fork Rocky Creek at FM 963 near Briggs

Brazos River Basin

Segment 1217B - Sulphur Creek (unclassified water body)

Water body description:	From the confluence of the Lampasas River east of Lampasas in Lampasas County to the confluences of Donalson Creek and Espy Branch west of Lampasas in Lampasas County
Water body classification:	Unclassified
Water body type:	Freshwater Stream
Water body length / area:	17.00 Miles
Use support summary:	The aquatic life and contact recreation uses are supported. The fish consumption use was not assessed due to insufficient data.
Water quality concerns summary:	Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
15250	Sulphur Creek at Lampasas CR 8, 6.5 km east of City of Lampasas and 1.4 km north of US 190

Brazos River Basin

Segment 1218 - Nolan Creek/South Nolan Creek

Water body description:	From the confluence with the Leon River in Bell County to a point 100 meters (110 yards) upstream to the most upstream crossing of US 190 and Loop 172 in Bell County
Water body classification:	Classified
Water body type:	Freshwater Stream
Water body length / area:	29.00 Miles

Use support summary:	The contact recreation use is not supported due to elevated fecal coliform densities. The aquatic life and general uses are supported. The fish consumption use was not assessed due to insufficient data.
Water quality concerns summary:	Nitrite + nitrate nitrogen, orthophosphorus, and total phosphorus are concerns.
Additional information:	A wasteload evaluation (WLE) for dissolved oxygen was approved in 1987 and has been incorporated into the state Water Quality Management Plan. Advanced waste treatment is required for one or more dischargers. A project is scheduled for fecal coliform bacteria to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at *www.tnrcc.state.tx.us/water/quality/tmdl/*.

Monitoring sites used in the assessment

Station	Station Description
11899	Nolan Creek approximately 600 ft downstream of Temple-Belton regional sewerage system treatment plant outfall
11901	Nolan Creek at IH 35 in Belton
11907	Nolan Creek at upstream Bridge US 190 east of Nolanville

Monitoring sites, continued

Station	Station Description
11911	Nolan Creek at FM 3219
11913	Nolan Creek at Roy Reynolds Rd.
11915	Nolan Creek 200 yd. above Bell County WCID #1 outfall
14237	Nolan Creek at SH 93 in Belton

Published studies

Publication	Date	Author
IS 27 Nolan Creek	April 1980	Petrick, D.
IS 66 Nolan Creek	April 1983	Petrick, D.

Wastewater dischargers

Permit type	Number of outfalls
Domestic	6

Historical fish kills

Start date	Location	Fish killed	Suspected cause
07/23/1996	Central Texas College - front pond in Killeen, Texas	150	Low Dissolved Oxygen
09/12/1997	South Nolan Creek - both Backstrom Crossing Bridges	1,991	Inorganic compound

Brazos River Basin

Segment 1219 - Leon River Below Belton Lake

Water body description: From the confluence with the Lampasas River in Bell County to Belton Dam in Bell County

Water body classification: Classified

Water body type: Freshwater Stream

Water body length / area: 17.00 Miles

Use support summary: Available data indicate that all uses are supported.

Water quality concerns summary: Available data indicate that there are no water quality concerns.

Additional information: A wasteload evaluation (WLE) for dissolved oxygen was approved in 1993 and has been incorporated into the state Water Quality Management Plan. Advanced waste treatment is required for one or more dischargers.

Monitoring sites used in the assessment

Station	Station Description
11916	Leon River at FM 436 west of Little River
14901	Leon River 1,400 ft. upstream of FM 817, northeast of Belton

Published studies

Publication	Date	Author
IS 89-04 Leon River	May,1987	Ottmers, D.

Historical fish kills

Start date	Location	Fish killed	Suspected cause
12/15/1994	31st Street and Golf Driving Range at Wincliff Addition south of Temple	15	Organic compound
08/10/1996	Central Texas College - front of campus in Killeen, Texas	47	Low Dissolved Oxygen

Brazos River Basin

Segment 1220 - Belton Lake

Water body description:	From Belton Dam in Bell County to a point 100 meters (110 yards) upstream of FM 236 in Coryell County, up to the normal pool elevation of 594 feet (impounds Leon River)
Water body classification:	Classified
Water body type:	Reservoir
Water body length / area:	12,300 Acres

Use support summary:	Available data indicate the aquatic life, public water supply, and general uses are supported. The contact recreation and fish consumption uses were not assessed due to insufficient data.
Water quality concerns summary:	Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
11921	Belton Reservoir near dam
11922	Belton Reservoir Cowhouse Creek arm
11923	Belton Reservoir Leon River arm near Headwater
15676	Belton Lake USGS site AC
15677	Belton Lake USGS site DC
15678	Belton Lake USGS site CC
15679	Belton Lake USGS site EC
15680	Belton Lake USGS site FC
15681	Belton Lake USGS site GC
15682	Belton Lake USGS site HC
15683	Belton Lake USGS site IC

Wastewater dischargers

Permit type	Number of outfalls
Agriculture	4
Domestic	11
Industrial	8

Brazos River Basin

Segment 1220A - Cowhouse Creek (unclassified water body)

Water body description:	From the confluence of Belton Lake in Bell County south of Gatesville in Coryell County to the upstream perennial portion of the stream north of Goldthwaite in Mills County
Water body classification:	Unclassified
Water body type:	Freshwater Stream
Water body length / area:	77.00 Miles
Use support summary:	Available data indicate the aquatic life use is supported. The contact recreation and fish consumption uses were not assessed due to insufficient data.
Water quality concerns summary:	Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
11805	Cowhouse Creek at FM 116 SW of Gatesville

Brazos River Basin

Segment 1221 - Leon River Below Proctor Lake

Water body description:	From a point 100 meters (110 yards) upstream of FM 236 in Coryell County to Proctor Dam in Comanche County
Water body classification:	Classified
Water body type:	Freshwater Stream
Water body length / area:	173.00 Miles

Use support summary: The contact recreation use is not supported due to elevated fecal coliform densities in the lower 125 miles. General uses are not supported due to an elevated average concentration of total dissolved solids. The aquatic life, fish consumption, and public water supply uses are supported.

Water quality concerns summary: Nitrite + nitrate nitrogen is a concern in the lower 125 miles.

Additional information: A wasteload evaluation (WLE) for dissolved oxygen was approved in 1998 and has been incorporated into the state Water Quality Management Plan. Advanced waste treatment is required for one or more dischargers.

Projects are scheduled for total dissolved solids and fecal coliform bacteria to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at *www.tnrcc.state.tx.us/water/quality/tmdl/*.

Monitoring sites used in the assessment

Station	Station Description
11926	Leon River at SH 36 southeast of Gatesville
11927	Leon River at unnamed county road, 2.5 km upstream of SH 36
11932	Leon River at US 281 north of Hamilton
11933	Leon River at unnamed county Road, northeast of Lamkin

Monitoring sites, continued

Station	Station Description
11934	Leon River at US 67-377 northeast of Hasse
15695	Leon River at SH 36 south of Gatesville

Published studies

Publication	Date	Author
IS 91-01 Leon River	Oct. 1988	Ottmers, D.

Wastewater dischargers

Permit type	Number of outfalls
Agriculture	155
Domestic	8
Industrial	3

Historical fish kills

Start date	Location	Fish killed	Suspected cause
04/15/1995	Leon River - Stilling basin of Lake Proctor and downstream	1,000	Low Dissolved Oxygen

Brazos River Basin

Segment 1221B - South Leon River (unclassified water body)

Water body description:	From the confluence of the Leon River south of Gustine in Comanche County to the upstream perennial portion of the stream south of Comanche in Comanche County
Water body classification:	Unclassified
Water body type:	Freshwater Stream
Water body length / area:	17.00 Miles
Use support summary:	Available data indicate the aquatic life and contact recreation uses are supported. The fish consumption use is not assessed due to insufficient data.
Water quality concerns summary:	Nitrite + nitrate nitrogen is a concern.

Monitoring sites used in the assessment

Station	Station Description
11817	South Leon River at SH 36 east of Gustine

Brazos River Basin

Segment 1222 - Proctor Lake

Water body description:	From Proctor Dam in Comanche County to a point immediately upstream of the confluence of Mill Branch in Comanche County, up to the normal pool elevation of 1162 feet (impounds Leon River)
Water body classification:	Classified
Water body type:	Reservoir
Water body length / area:	4,610 Acres

Use support summary:	The aquatic life use is partially supported due to depressed dissolved oxygen concentrations. The contact recreation, public water supply, and general uses are supported. The fish consumption use was not assessed due to insufficient data.
Water quality concerns summary:	Chlorophyll *a* is a concern.
Additional information:	A project is scheduled for dissolved oxygen to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at *www.tnrcc.state.tx.us/water/quality/tmdl/*.

Monitoring sites used in the assessment

Station	Station Description
11935	Proctor Lake near dam
11936	Proctor Lake Leon and Sabana River arm
11937	Proctor Lake Copperas Creek arm
14032	Proctor Lake USGS site AC
14033	Proctor Lake USGS site AL
14034	Proctor Lake USGS site BC

Monitoring sites, continued

Station	Station Description
14035	Proctor Lake USGS site CC
14036	Proctor Lake USGS site DC
14037	Proctor Lake USGS site EC
14038	Proctor Lake USGS site FC

Wastewater dischargers

Permit type	Number of outfalls
Agriculture	33
Domestic	4

Brazos River Basin

Segment 1222A - Duncan Creek (unclassified water body)

Water body description:	From the confluence of Proctor Lake northeast of Comanche in Comanche County to the upstream perennial portion of the stream west of Comanche in Comanche County
Water body classification:	Unclassified
Water body type:	Freshwater Stream
Water body length / area:	12.00 Miles

Use support summary:	The aquatic life use is not supported due to depressed dissolved oxygen concentrations. The contact recreation use is not supported due to elevated fecal coliform densities. The fish consumption use was not assessed due to insufficient data.
Water quality concerns summary:	Nitrite + nitrate nitrogen is a concern.
Additional information:	A project is underway for dissolved oxygen to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. A project is scheduled for fecal coliform bacteria to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at *www.tnrcc.state.tx.us/water/quality/tmdl/*.

Monitoring sites used in the assessment

Station	Station Description
11825	Duncan Creek at unnamed county road 0.1km west of SH 16

Brazos River Basin

Segment 1222B - Rush-Copperas Creek (unclassified water body)

Water body description:	From the confluence of Proctor Lake northeast of Comanche in Comanche County to the upstream perennial portion of the stream northwest of Comanche in Comanche County
Water body classification:	Unclassified
Water body type:	Freshwater Stream
Water body length / area:	32.00 Miles
Use support summary:	Available data indicate the aquatic life and contact recreation uses are supported. The fish consumption use was not assessed due to insufficient data.
Water quality concerns summary:	Water quality concerns were not assessed due to insufficient data.

Monitoring sites used in the assessment

Station	Station Description
11824	Rush-Copperas Creek at SH 16 Bridge

Brazos River Basin

Segment 1222C - Sabana River (unclassified water body)

Water body description:	From the confluence of Proctor Lake northeast of Comanche in Comanche County to the upstream perennial portion of the stream northwest of Rising Star in Eastland County
Water body classification:	Unclassified
Water body type:	Freshwater Stream
Water body length / area:	51.00 Miles
Use support summary:	Available data indicate the aquatic life and contact recreation uses are supported. The fish consumption use was not assessed due to insufficient data.
Water quality concerns summary:	Water quality concerns were not assessed due to insufficient data.

Monitoring sites used in the assessment

Station	Station Description
11823	Sabana River at SH 16
13647	Sabana River at FM 587, 4 mi. west of De Leon, 0.6 mi. downstream from Spring Branch, 4.2 mi. upstream from Turkey Creek

Brazos River Basin

Segment 1223 - Leon River Below Leon Reservoir

Water body description: From a point immediately upstream of the confluence of Mill Branch in Comanche County to Leon Dam in Eastland County

Water body classification: Classified

Water body type: Freshwater Stream

Water body length / area: 35.00 Miles

Use support summary: Available data indicate the aquatic life, contact recreation, public water supply, and general uses are supported. The fish consumption use was not assessed due to insufficient data.

Water quality concerns summary: Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
11938	Leon River at SH 16 north of De Leon

Wastewater dischargers

Permit type	Number of outfalls
Agriculture	67
Domestic	2

Historical fish kills

Start date	Location	Fish killed	Suspected cause
09/18/1997	Leon River at Gustine, Texas	174	Organic compound

Brazos River Basin

Segment 1224 - Leon Reservoir

Water body description: From Leon Dam in Eastland County up to the normal pool elevation of 1375 feet (impounds Leon River)

Water body classification: Classified

Water body type: Reservoir

Water body length / area: 1,590 Acres

Use support summary: Available data indicate that the public water supply and general uses are supported. The aquatic life, contact recreation, and fish consumption uses were not assessed due to insufficient data.

Water quality concerns summary: Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
11939	Leon Reservoir near dam
11941	Leon Reservoir at Headwater near FM 2214

Wastewater dischargers

Permit type	Number of outfalls
Domestic	1
Industrial	2

Historical fish kills

Start date	Location	Fish killed	Suspected cause
06/11/1994	North fork of Leon River at Missouri Pacific Railroad E. of Eastland	200	Inorganic compound

Brazos River Basin

Segment 1224A - Lake Olden (unclassified water body)

Water body description:	From Olden Lake Dam up to normal pool elevation south-east of Eastland in Eastland County (impounds North Fork Leon River)
Water body classification:	Unclassified
Water body type:	Reservoir
Water body length / area:	130 Acres

Use support summary:	Available data indicate that the public water supply use is supported. Other uses were not assessed due to insufficient data.
Water quality concerns summary:	Public water supply systems have experienced increased costs for demineralization due to high concentrations of total dissolved solids.

Brazos River Basin

Segment 1225 - Waco Lake

Water body description: From Waco Lake Dam in McLennan County to a point 100 meters (110 yards) upstream of FM 185 on the North Bosque River Arm in McLennan County and the confluence of the Middle Bosque River on the South Bosque River Arm in McLennan County, up to the normal pool elevation of 455 feet (impounds Bosque River)

Water body classification: Classified

Water body type: Reservoir

Water body length / area: 7,270 Acres

Use support summary: Available data indicate the aquatic life, contact recreation, public water supply, and general uses are supported.
The fish consumption use was not assessed due to insufficient data.

Water quality concerns summary: According to water quality data contributed by the Texas Institute for Applied Environmental Research (TIAER), nitrite+nitrate nitrogen and chlorophyll *a* are concerns.

Monitoring sites used in the assessment

Station	Station Description
11942	Lake Waco near dam
11945	Lake Waco north Bosque Arm
11948	Lake Waco middle and south Bosque Arm above SH 6

Published studies

Publication	Date	Author
IMS 77 Lake Waco	May 1977	Wyrick, D. (Region 9)

Wastewater dischargers

Permit type	Number of outfalls
Domestic	1

Historical fish kills

Start date	Location	Fish killed	Suspected cause
02/14/1996	North Bosque River - at upstream area of Lake Waco	15	Color/Scum/ Foam

Brazos River Basin

Segment 1226 - North Bosque River

Water body description:	From a point 100 meters (110 yards) upstream of FM 185 in McLennan County to a point immediately above the confluence of Indian Creek in Erath County.
Water body classification:	Classified
Water body type:	Freshwater Stream
Water body length / area:	103.00 Miles

Use support summary: The contact recreation use is not supported due to elevated fecal coliform densities in the upper 75 miles. The aquatic life use is supported in the upper 75 miles. The public water supply and general uses are supported throughout the segment. The fish consumption use was not assessed due to insufficient data.

Water quality concerns summary: According to water quality data contributed by the Texas Institute for Applied Environmental Research (TIAER), chlorophyll *a* is a concern. The elevated concentrations of chlorophyll *a* cause a narrative concern for nuisance algal growth.

Additional information: A wasteload evaluation (WLE) for dissolved oxygen was approved in 1988 and has been incorporated into the state Water Quality Management Plan. Advanced waste treatment is required for one or more dischargers.

A total maximum daily load (TMDL) to evaluate the causes and sources of nutrients and allocate the allowable loading has been completed and approved by the Commission.

A project is scheduled for fecal coliform bacteria to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program.

Additional information, continued:

For more information on specific TMDL projects, visit the TNRCC Web site at *www.tnrcc.state.tx.us/water/quality/tmdl/*.

Monitoring sites used in the assessment

Station	Station Description
11956	North Bosque River at FM 219 NE of Clifton
11958	North Bosque River in Meridian at SH 22
11960	North Bosque River at FM 216 in Iredell
11961	North Bosque River at US 281 near Hico
11962	North Bosque River at SH 6 above Green Creek confluence
14384	North Bosque River at Bosque CR 110, 6.8 km upstream of SH 6 west of Iredell

Published studies

Publication	Date	Author
IS 6 Bosque River	April 1978	Ezell, C.

Wastewater dischargers

Permit type	Number of outfalls
Agriculture	157
Domestic	7
Industrial	1

Historical fish kills

Start date	Location	Fish killed	Suspected cause
11/03/1994	N. Bosque River - at City of Stephenville sewage plant	30	Low Dissolved Oxygen
04/22/1995	Big Duffau Creek - at County Road 214	5	Physical Damage/Trauma

Brazos River Basin

Segment 1226A - Duffau Creek (unclassified water body)

Water body description:	From the confluence of the North Bosque River west of Iredell in Bosque County to the upstream perennial portion of the stream east of Stephenville in Erath County
Water body classification:	Unclassified
Water body type:	Freshwater Stream
Water body length / area:	21.00 Miles

Use support summary:	The contact recreation use is not supported due to elevated fecal coliform densities. The aquatic life use is supported. The fish consumption use was not assessed due to insufficient data.
Water quality concerns summary:	Water quality concerns were not assessed due to insufficient data.
Additional information:	A project is scheduled for fecal coliform bacteria to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at *www.tnrcc.state.tx.us/water/quality/tmdl/*.

Monitoring sites used in the assessment

Station	Station Description
11810	Duffau Creek at FM 927 west of Iredell

Brazos River Basin

Segment 1226B - Green Creek (unclassified water body)

Water body description: From the confluence of the North Bosque River south of Clairette in Erath County to the upstream perennial portion of the stream south of Stephenville in Erath County

Water body classification: Unclassified

Water body type: Freshwater Stream

Water body length / area: 22.00 Miles

Use support summary: The aquatic life and contact recreation uses are supported. The fish consumption use was not assessed due to insufficient data.

Water quality concerns summary: Water quality concerns were not assessed due to insufficient data.

Monitoring sites used in the assessment

Station	Station Description
11811	Green Creek at unnamed road 0.6 km upstream of the confluence with the North Bosque River near Clairette
13486	Green Creek at unnamed road 1.8 km upstream of the confluence with the North Bosque River

Brazos River Basin

Segment 1226C - Meridian Creek (unclassified water body)

Water body description:	From the confluence of the North Bosque River northwest of Clifton in Bosque County to the upstream perennial portion of the stream northeast of Hamilton in Hamilton County.
Water body classification:	Unclassified
Water body type:	Freshwater Stream
Water body length / area:	25.00 Miles
Use support summary:	The contact recreation use is not supported due to elevated fecal coliform densities. The aquatic life use is supported. The fish consumption use was not assessed due to insufficient data.
Water quality concerns summary:	Available data indicate that there are no water quality concerns.
Additional information:	A project is scheduled for fecal coliform bacteria to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at *www.tnrcc.state.tx.us/water/quality/tmdl/*.

Monitoring sites used in the assessment

Station	Station Description
14908	Meridian Creek at SH 6, 2.5 mi. NW of Clifton

Brazos River Basin

Segment 1226D - Neils Creek (unclassified water body)

Water body description:	From the confluence of the North Bosque River south of Clifton in Bosque County to the confluence of the North and Middle Fork Neils Creeks west of Clifton in Bosque County
Water body classification:	Unclassified
Water body type:	Freshwater Stream
Water body length / area:	26.00 Miles
Use support summary:	The contact recreation use is not supported due to elevated fecal coliform densities. The aquatic life use is supported. The fish consumption use was not assessed due to insufficient data.
Water quality concerns summary:	Water quality concerns were not assessed due to insufficient data.
Additional information:	A project is scheduled for fecal coliform bacteria to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at *www.tnrcc.state.tx.us/water/quality/tmdl/*.

Monitoring sites used in the assessment

Station	Station Description
11826	Neils Creek at SH 6 SE of Clifton

Brazos River Basin

Segment 1227 - Nolan River

Water body description:	From a point immediately upstream of the confluence of Rock Creek in Hill County to Cleburne Dam in Johnson County
Water body classification:	Classified
Water body type:	Freshwater Stream
Water body length / area:	16.00 Miles

Use support summary:	Available data indicate that the aquatic life, contact recreation, and general uses are supported. The fish consumption use was not assessed due to insufficient data.
Water quality concerns summary:	Orthophosphorus is a concern.
Additional information:	A wasteload evaluation (WLE) for dissolved oxygen was approved in 1991 and has been incorporated into the state Water Quality Management Plan. Advanced waste treatment is required for one or more dischargers.

Monitoring sites used in the assessment

Station	Station Description
11967	Nolan River at FM 933 in Blum
11971	Nolan River at FM 916 west of Rio Vista

Published studies

Publication	Date	Author
IMS 68 Nolan River	July 1976	Dick, M. (Region 4)

Wastewater dischargers

Permit type	Number of outfalls
Agriculture	12
Domestic	8
Industrial	1

Historical fish kills

Start date	Location	Fish killed	Suspected cause
09/28/1997	South Nolan Creek - from just above Levy Crossing to below Highway 190	2,194	Inorganic compound

Brazos River Basin

Segment 1228 - Lake Pat Cleburne

Water body description: From Cleburne Dam in Johnson County up to the normal pool elevation of 733.5 feet (impounds Nolan River)

Water body classification: Classified

Water body type: Reservoir

Water body length / area: 1,550 Acres

Use support summary: Available data indicate that the public water supply use is supported. Other uses were not assessed due to insufficient data.

Water quality concerns summary: Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
11974	Pat Cleburne Reservoir mid-lake near dam

Wastewater dischargers

Permit type	Number of outfalls
Agriculture	26
Domestic	1

Historical fish kills

Start date	Location	Fish killed	Suspected cause
07/11/1995	Lake Pat Cleburne - Stilling basin at reservoir and downstream	1,000	Low Dissolved Oxygen
07/27/1996	Buffalo Creek - at golf course pool in Cleburne, TX	500	Low Dissolved Oxygen

Brazos River Basin

Segment 1229 - Paluxy River/North Paluxy River

Water body description:	From the confluence with the Brazos River in Somervell County to the confluence of Rough Creek in Erath County
Water body classification:	Classified
Water body type:	Freshwater Stream
Water body length / area:	57.00 Miles
Use support summary:	General uses are not supported due to an elevated average concentration of total dissolved solids. The aquatic life, contact recreation, and public water supply uses are supported. The fish consumption use was not assessed due to insufficient data.
Water quality concerns summary:	Available data indicate that there are no water quality concerns.
Additional information:	A project is scheduled for total dissolved solids to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at *www.tnrcc.state.tx.us/water/quality/tmdl/*.

Monitoring sites used in the assessment

Station	Station Description
11976	Paluxy River at washed out dam in city park on NE Bernard St. in Glen Rose
14245	Paluxy River at Erath CR 149, 0.1 mi. north of Bluff Dale
14481	Paluxy River in Dinosaur Valley State Park at north end of park before Wildcat Hollow by dinosaur tracks

Wastewater dischargers

Permit type	Number of outfalls
Agriculture	24
Domestic	7
Industrial	8

Historical fish kills

Start date	Location	Fish killed	Suspected cause
07/25/1997	Squaw Creek Reservoir - hot pond of electric plant	100	Temperature

Brazos River Basin

Segment 1230 - Lake Palo Pinto

Water body description: From Palo Pinto Dam in Palo Pinto County up to the normal pool elevation of 867 feet (impounds Palo Pinto Creek)

Water body classification: Classified

Water body type: Reservoir

Water body length / area: 2,661 Acres

Use support summary: Available data indicate the public water supply use is supported. Other uses were not assessed due to insufficient data.

Water quality concerns summary: Available data indicate that there are no finished drinking water concerns. Other concerns were not assessed due to insufficient data.

Monitoring sites used in the assessment

Station	Station Description
11977	Lake Palo Pinto near dam

Wastewater dischargers

Permit type	Number of outfalls
Domestic	5
Industrial	4

Brazos River Basin

Segment 1231 - Lake Graham

Water body description: From Graham Dam and Eddleman Dam in Young County up to the normal pool elevation of 1076.3 feet (impounds Salt Creek and Flint Creek)

Water body classification: Classified

Water body type: Reservoir

Water body length / area: 2,550 Acres

Use support summary: Available data indicate the public water supply use is supported. Other uses were not assessed due to insufficient data.

Water quality concerns summary: Available data indicate that there are no finished drinking water concerns. Other concerns were not assessed due to insufficient data.

Monitoring sites used in the assessment

Station	Station Description
11979	Lake Graham near dam

Wastewater dischargers

Permit type	Number of outfalls
Domestic	6

Historical fish kills

Start date	Location	Fish killed	Suspected cause
12/16/1995	Graham T.U. Electric Power Plant waste pond	300	Inorganic compound

Brazos River Basin

Segment 1232 - Clear Fork Brazos River

Water body description:	From the confluence with the Brazos River in Young County to the most upstream crossing of US 180 in Fisher County
Water body classification:	Classified
Water body type:	Freshwater Stream
Water body length / area:	284.00 Miles

Use support summary:	Available data indicate the aquatic life, contact recreation, and general uses are supported in two separate 25-mile reaches near Fort Griffin and Nugent. The fish consumption use was not assessed due to insufficient data.
Water quality concerns summary:	Chlorophyll *a* is a concern in the Fort Griffin area.
Additional information:	A wasteload evaluation (WLE) for dissolved oxygen was approved in 1998 and has been incorporated into the state Water Quality Management Plan. Advanced waste treatment is required for one or more dischargers.

Monitoring sites used in the assessment

Station	Station Description
11981	Clear Fork Brazos River at county road in South Bend
11985	Clear Fork Brazos River at bridge on US 283 NE of Fort Griffin
11991	Clear Fork Brazos River at US 180 east of Anson
11992	Clear Fork Brazos River at FM 600 near Nugent
12000	Clear Fork Brazos River at US 180 east of Roby

Published studies

Publication	Date	Author
IMS 13 Clear Fork Brazos River	Jan. 1973	Bohmfalk, C.
IS 90-01 Clear Fork Brazos River	Aug. 1988	Kirkpatrick, J.

Wastewater dischargers

Permit type	Number of outfalls
Agriculture	4
Domestic	29
Industrial	6

Historical fish kills

Start date	Location	Fish killed	Suspected cause
04/14/1995	Little Elm Creek - on E. side of Dyess Air Force Base west of Abilene, TX	30	Low Dissolved Oxygen
06/17/1996	Brazos River - Clear Fork, at Highway 57 bridge	250	Low Dissolved Oxygen
07/06/1997	Duck Creek - on old Caddo Rd. from Breckenridge to Melrose	300	Organic compound
06/25/1998	Clear Fork of Brazos River - From Sylvester to Highway 126	33,873	Disease

Brazos River Basin

Segment 1232A - California Creek (unclassified water body)

Water body description:	From the confluence of Paint Creek southeast of Haskell in Haskell County to the upstream perennial portion of the stream southwest of Stamford in Jones County
Water body classification:	Unclassified
Water body type:	Freshwater Stream
Water body length / area:	67.00 Miles
Use support summary:	Available data indicate the aquatic life and contact recreation uses are supported.
Water quality concerns summary:	Nitrite + nitrate nitrogen and chlorophyll *a* are concerns.

Monitoring sites used in the assessment

Station	Station Description
11709	California Creek at FM 142 east of Stamford

Brazos River Basin

Segment 1232B - Deadman Creek (unclassified water body)

Water body description:	From the confluence of the Clear Fork Brazos River south of Lueders in Jones County to the upstream perennial portion of the stream north of Hamby in Jones County
Water body classification:	Unclassified
Water body type:	Freshwater Stream
Water body length / area:	29.00 Miles
Use support summary:	Available data indicate the aquatic life and contact recreation uses are supported. The fish consumption use was not assessed due to insufficient data.
Water quality concerns summary:	Ammonia nitrogen and total phosphorus are concerns.

Monitoring sites used in the assessment

Station	Station Description
11698	Deadman Creek at road 1.5 mi. east of Lake Fort Phantom Hill spillway

Brazos River Basin

Segment 1233 - Hubbard Creek Reservoir

Water body description:	From Hubbard Creek Dam in Stephens County up to the normal pool elevation of 1183 feet (impounds Hubbard Creek)
Water body classification:	Classified
Water body type:	Reservoir
Water body length / area:	15,250 Acres

Use support summary:	General uses are not supported due to an elevated average concentration of sulfate. The aquatic life and public water supply uses are supported. The fish consumption use was not assessed due to insufficient data.
Water quality concerns summary:	Available data indicate that there are no water quality concerns.
Additional information:	A project is scheduled for sulfate to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at *www.tnrcc.state.tx.us/water/quality/tmdl/*.

Monitoring sites used in the assessment

Station	Station Description
12002	Hubbard Creek Reservoir near dam
13879	Hubbard Creek Reservoir USGS site P12
13880	Hubbard Creek Reservoir USGS site P11
13881	Hubbard Creek Reservoir USGS site P18
13882	Hubbard Creek Reservoir USGS site P10
13883	Hubbard Creek Reservoir USGS site P17

Monitoring sites, continued

Station	Station Description
13884	Hubbard Creek Reservoir USGS site P09
13885	Hubbard Creek Reservoir USGS site P16
13886	Hubbard Creek Reservoir USGS site P15
13888	Hubbard Creek Reservoir USGS site P01
13889	Hubbard Creek Reservoir USGS site P13

Published studies

Publication	Date	Author
IMS 15 Hubbard Creek Reservoir	Jan. 1975	Twidwell, S.

Wastewater dischargers

Permit type	Number of outfalls
Domestic	6

Brazos River Basin

Segment 1234 - Lake Cisco

Water body description:	From Williamson Dam in Eastland County up to the normal pool elevation of 1496 feet (impounds Sandy Creek)
Water body classification:	Classified
Water body type:	Reservoir
Water body length / area:	445 Acres

Use support summary:	Available data indicate the public water supply use is supported. Other uses were not assessed due to insufficient data.
Water quality concerns summary:	Available data indicate that there are no finished drinking water concerns. Other concerns were not assessed due to insufficient data.

Monitoring sites used in the assessment

Station	Station Description
12005	Lake Cisco near FM 2807

Brazos River Basin

Segment 1235 - Lake Stamford

Water body description:	From Stamford Dam in Haskell County up to the normal pool elevation of 1416.8 feet (impounds Paint Creek)
Water body classification:	Classified
Water body type:	Reservoir
Water body length / area:	4,690 Acres

Use support summary:	Available data indicate the public water supply use is supported. Other uses were not assessed due to insufficient data.
Water quality concerns summary:	Available data indicate that there are no finished drinking water concerns. Other concerns were not assessed due to insufficient data.

Monitoring sites used in the assessment

Station	Station Description
12006	Lake Stamford near dam

Wastewater dischargers

Permit type	Number of outfalls
Agriculture	1
Domestic	4
Industrial	5

Brazos River Basin

Segment 1236 - Fort Phantom Hill Reservoir

Water body description: From Fort Phantom Hill Dam in Jones County up to the normal pool elevation of 1636 feet (impounds Elm Creek)

Water body classification: Classified

Water body type: Reservoir

Water body length / area: 14,246 Acres

Use support summary: Available data indicate the public water supply use is supported. Other uses were not assessed due to insufficient data.

Water quality concerns summary: Available data indicate that there are no finished drinking water concerns. Other concerns were not assessed due to insufficient data.

Monitoring sites used in the assessment

Station	Station Description
12010	Lake Fort Phantom Hill mid lake near dam

Wastewater dischargers

Permit type	Number of outfalls
Agriculture	1
Domestic	1
Industrial	4

Historical fish kills

Start date	Location	Fish killed	Suspected cause
09/03/1994	Cedar Creek entering the lake	60,000	Low Dissolved Oxygen

Brazos River Basin

Segment 1237 - Lake Sweetwater

Water body description: From Sweetwater Dam in Nolan County up to the normal pool elevation of 2116.5 feet (impounds Bitter Creek)

Water body classification: Classified

Water body type: Reservoir

Water body length / area: 621 Acres

Use support summary: Available data indicate the public water supply use is supported. Other uses were not assessed due to insufficient data.

Water quality concerns summary: Available data indicate that there are no finished drinking water concerns. Other concerns were not assessed due to insufficient data.

Monitoring sites used in the assessment

Station	Station Description
12021	Lake Sweetwater mid-lake

Historical fish kills

Start date	Location	Fish killed	Suspected cause
06/20/1997	Lake Sweetwater - near boat ramp	75	Disease

Brazos River Basin

Segment 1238 - Salt Fork Brazos River

Water body description:	From the confluence of the Double Mountain Fork Brazos River in Stonewall County to the most upstream crossing of SH 207 in Crosby County
Water body classification:	Classified
Water body type:	Freshwater Stream
Water body length / area:	178.00 Miles

Use support summary:	Available data indicate the aquatic life, contact recreation, and general uses are supported in a 25-mile reach near the City of Aspermont. The fish consumption use was not assessed due to insufficient data.
Water quality concerns summary:	Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
12022	Salt Fork Brazos River Bridge on US 83 north of Spermont

Wastewater dischargers

Permit type	Number of outfalls
Domestic	19

Brazos River Basin

Segment 1239 - White River

Water body description:	From the confluence of the Salt Fork Brazos River in Kent County to White River Dam in Crosby County
Water body classification:	Classified
Water body type:	Freshwater Stream
Water body length / area:	25.00 Miles

Use support summary:	Available data indicate the public water supply use is supported. Other uses were not assessed due to insufficient data.
Water quality concerns summary:	Available data indicate that there are no finished drinking water concerns. Other concerns were not assessed due to insufficient data.

Monitoring sites used in the assessment

Station	Station Description
12025	White River FM 261 southwest of spur

Brazos River Basin

Segment 1240 - White River Lake

Water body description: From White River Dam in Crosby County up to normal pool elevation of 2369 feet (impounds White River)

Water body classification: Classified

Water body type: Reservoir

Water body length / area: 2,020 Acres

Use support summary: Available data indicate that the public water supply use is supported. Other uses were not assessed due to insufficient data. White River Lake is on the 2000 303(d) for elevated average concentrations of total dissolved solids based on the assessment performed in 1996.

Water quality concerns summary: Available data indicate that there are no finished drinking water concerns. Other concerns were not assessed due to insufficient data.

Additional information: A project is scheduled for total dissolved solids to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at *www.tnrcc.state.tx.us/water/quality/tmdl/*.

Wastewater dischargers

Permit type	Number of outfalls
Agriculture	89
Domestic	38
Industrial	4

Brazos River Basin

Segment 1241 - Double Mountain Fork Brazos River

Water body description:	From the confluence with the Salt Fork Brazos River in Stonewall County to the confluence of the North Fork Double Mountain Fork Brazos River in Kent County
Water body classification:	Classified
Water body type:	Freshwater Stream
Water body length / area:	145.00 Miles

Use support summary:	Available data indicate the aquatic life, contact recreation, and general uses are supported in a 25-mile reach near the City of Aspermont. The fish consumption use was not assessed due to insufficient data.
Water quality concerns summary:	Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
12029	Double Mountain Fork Brazos River Bridge on US 83 south of Aspermont

Wastewater dischargers

Permit type	Number of outfalls
Agriculture	44
Domestic	142
Industrial	17

Historical fish kills

Start date	Location	Fish killed	Suspected cause
04/17/1996	North Fork of Double Mountain Fork of Brazos River	1,677	Low Dissolved Oxygen

Brazos River Basin

Segment 1242 - Brazos River Below Whitney Lake

Water body description:	From the confluence of the Navasota River in Brazos/ Grimes/Washington County to Whitney Dam in Bosque/Hill County
Water body classification:	Classified
Water body type:	Freshwater Stream
Water body length / area:	223.00 Miles

Use support summary:	The contact recreation use is not supported in a 25-mile reach in the Lake Brazos area near the City of Waco. The aquatic life and general uses are supported in two separate areas near Waco and Rosebud. The public water supply use is supported throughout the river. The fish consumption use was not assessed due to insufficient data.
Water quality concerns summary:	Public water supply systems have experienced increased costs for demineralization due to high concentrations of total dissolved solids. Arsenic and nickel in sediment are concerns in a 25-mile reach in the Lake Brazos area.
Additional information:	A project is scheduled for fecal coliform bacteria to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at *www.tnrcc.state.tx.us/water/quality/tmdl/*.

Monitoring sites used in the assessment

Station	Station Description
12030	Brazos River at SH 105 west of Navasota
12032	Brazos River at FM 413 NE of rosebud
12034	Brazos River at SH 7 west of Marlin
12038	Brazos River at Loop 340 SE of Waco

Monitoring sites, continued

Station	Station Description
13642	Brazos River at Whitney Dam, 7.4 mi. SW of Whitney, 4.0 mi. upstream of Iron Creek
14226	Lake Brazos at La Salle Blvd in Waco

Wastewater dischargers

Permit type	Number of outfalls
Agriculture	6
Domestic	56
Industrial	52

Historical fish kills

Start date	Location	Fish killed	Suspected cause
06/20/1996	North Cow Bayou Creek - near Lorina	100	Low Dissolved Oxygen
07/05/1996	Cattle egret rookery - at Dallas Dr. and Waco Dr. in Waco, Texas	100	Temperature
07/20/1996	Spring Lake - in Lacy Lakeview, Texas just North of Waco	163	Low Dissolved Oxygen
01/14/1997	Coleman Creek - Old Highway 80 at Itasca, TX STP	50	Temperature
03/25/1997	Tradinghouse Lake - Waco, Texas	1,000	Disease

Brazos River Basin

Segment 1242A - Marlin City Lake System (unclassified water body)

Water body description:	From New Marlin City Dam up to normal pool elevation northeast of Marlin in Falls County (impounds Big Sandy Creek)
Water body classification:	Unclassified
Water body type:	Reservoir
Water body length / area:	700 Acres

Use support summary:	Available data indicate that the public water supply use is supported. Other uses were not assessed due to insufficient data.
Water quality concerns summary:	Available data indicate that there are no finished drinking water concerns associated with chloride, sulfate, and total dissolved solids. Other concerns were not assessed due to insufficient data.

Brazos River Basin

Segment 1243 - Salado Creek

Water body description:	From the confluence with the Lampasas River in Bell County to the confluence of North Salado Creek and South Salado Creek in Williamson County
Water body classification:	Classified
Water body type:	Freshwater Stream
Water body length / area:	27.00 Miles

Use support summary: The aquatic life use is partially supported due to depressed dissolved oxygen concentrations in the lower 27 miles. General uses are not supported due to an elevated average concentration of total dissolved solids. The public water supply and contact recreation uses are supported. The fish consumption use was not assessed due to insufficient data.

Water quality concerns summary: Available data indicate that there are no water quality concerns.

Additional information: A wasteload evaluation (WLE) for dissolved oxygen was approved in 1987 and has been incorporated into the state Water Quality Management Plan. Advanced waste treatment is required for one or more dischargers.

A project is underway for dissolved oxygen to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program.

A project is scheduled for total dissolved solids to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program.

Additional information, continued: For more information on specific TMDL projects, visit the TNRCC Web site at *www.tnrcc.state.tx.us/water/quality/tmdl/*.

Monitoring sites used in the assessment

Station	Station Description
12051	Salado Creek in Salado, 50 meters downstream from FM 2268

Published studies

Publication	Date	Author
IS 87-03 Salado Creek	July 1986	Respess, R.

Wastewater dischargers

Permit type	Number of outfalls
Domestic	6

Brazos River Basin

Segment 1244 - Brushy Creek

Water body description:	From the confluence with the San Gabriel River in Milan County to the confluence of South Brushy Creek in Williamson County
Water body classification:	Classified
Water body type:	Freshwater Stream
Water body length / area:	68.00 Miles

Use support summary: General uses are not supported due to an elevated average concentration of total dissolved solids. The aquatic life and contact recreation uses are supported in the upper 25 miles. The public water supply use is supported throughout the segment. The fish consumption use was not assessed due to insufficient data.

Water quality concerns summary: Ammonia nitrogen, nitrite + nitrate nitrogen, and total phosphorous are concerns in a 25-mile reach downstream of the city of Round Rock.

Additional information: A wasteload evaluation (WLE) for dissolved oxygen was approved in 1984 and has been incorporated into the state Water Quality Management Plan. Advanced waste treatment is required for one or more dischargers.

A project is underway for total dissolved solids to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at *www.tnrcc.state.tx.us/water/quality/tmdl/*.

Monitoring sites used in the assessment

Station	Station Description
12054	Brushy Creek at FM 908 northwest of Rockdale

Monitoring sites, continued

Station	Station Description
12056	Brushy Creek at CR 434 SE of Thorndale
12060	Brushy Creek at FM 685
12062	Brushy Creek at CR 122, 0.4 km downstream of Chandler Branch
12069	Brushy Creek at CR 174 west of Round Rock
14944	Brushy Creek at Williamson CR 405, 2 mi. upstream of SH 95

Published studies

Publication	Date	Author
IS 16 Brushy Creek	Oct. 1978	Ezell, C.
IS 44 Brushy Creek	June 1980	Ezell, C.
IS 50 South Brushy Creek	Jan. 1982	Twidwell, S.

Wastewater dischargers

Permit type	Number of outfalls
Domestic	19

Historical fish kills

Start date	Location	Fish killed	Suspected cause
09/11/1996	Brushy Creek tributary	392	Low Dissolved Oxygen
06/18/1997	Upper most lake of Taylor City Lakes in Taylor	3	Other
05/02/1998	Spanish Oak Creek 2 mi upstream of FM 1431n N of Cedar Park	4,831	Low Dissolved Oxygen
07/14/1998	Brushy Creek - 0.5 mi upstream of Harry Man Road bridge, west of Round Rock	2,523	Pollutant

Brazos River Basin

Segment 1244A - North Fork Brushy Creek (unclassified water body)

Water body description:	From the confluences of Brushy Creek and South Brushy Creek east of Leander in Williamson County to the upstream perennial portion of the stream west of Leander in Williamson County
Water body classification:	Unclassified
Water body type:	Freshwater Stream
Water body length / area:	11.00 Miles
Use support summary:	Available data indicate the aquatic life use is supported. Other uses were not assessed due to insufficient data.
Water quality concerns summary:	Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
11731	Brushy Creek at FM 2243 east of Leander

Brazos River Basin

Segment 1245 - Upper Oyster Creek

Water body description:	From Steep Bank Creek/Brazos River confluence in Fort Bend County to pumping station on Jones Creek confluence at Brazos River in Fort Bend County (includes portions of Steep Bank Creek, Flat Bank Creek, and Jones Creek)
Water body classification:	Classified
Water body type:	Freshwater Stream
Water body length / area:	30.00 Miles

Use support summary: The aquatic life use is partially supported due to depressed dissolved oxygen concentrations. The contact recreation use is not supported due to elevated fecal coliform densities. The public water supply and general uses are supported. The fish consumption use was not assessed due to insufficient data.

Water quality concerns summary: Available data indicate that there are no water quality concerns.

Additional information: A project is underway for dissolved oxygen to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program..

A project is scheduled for fecal coliform bacteria to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program.

For more information on specific TMDL projects, visit the TNRCC Web site at *www.tnrcc.state.tx.us/water/quality/tmdl/*.

Monitoring sites used in the assessment

Station	Station Description
12079	Oyster Creek at US 59 next to the feeder road between William Trace Blvd and SH 6
12082	Upper Oyster Creek at dam 2 in Sugar Land, 1 mi. downstream of US 90A
12083	Upper Oyster Creek at US 90A in Sugar Land
12084	Oyster Creek at Harmon St. in Sugar Land
12086	Oyster Creek at SH 6 near Hull Airport, in Sugar Land

Published studies

Publication	Date	Author
IMS 64 Upper Oyster Creek	Aug. 1975	Kirkpatrick, J.
IS 14 Upper Oyster Creek	Dec. 1978	Kirkpatrick, J.
SR 92-05 Upper Oyster Creek	April 1989	Kolbe, C. (Region 12)

Wastewater dischargers

Permit type	Number of outfalls
Agriculture	23
Domestic	15
Industrial	3

Historical fish kills

Start date	Location	Fish killed	Suspected cause
12/03/1997	Fluor Daniel at Highway 6 and Brooks Lake and Halls Lake	2,500	Low Dissolved Oxygen
12/04/1997	Urban lake north of SH 6 and SH 59	25	Low Dissolved Oxygen

Brazos River Basin

Segment 1246 - Middle Bosque/South Bosque River

Water body description: From the confluence with the South Bosque River in McLennan County to the confluence of Cave Creek and Middle Bosque Creek on the Middle Bosque River in Coryell County and from the confluence of the Middle Bosque River in McLennan County to FM 2671 on the South Bosque River in McLennan County

Water body classification: Classified

Water body type: Freshwater Stream

Water body length / area: 47.00 Miles

Use support summary: Available data indicate that the aquatic life, contact recreation, and general uses are supported in the South Bosque River. The fish consumption use was not assessed due to insufficient data. Uses were not assessed in the Middle Bosque River due to insufficient data.

Water quality concerns summary: Available data indicate that there are no water quality concerns.

Additional information: According to water quality data contributed by the Texas Institute for Applied Environmental Research (TIAER), nitrite+nitrate nitrogen is a concern.

Monitoring sites used in the assessment

Station	Station Description
12093	Middle Bosque/South Bosque River middle fork at FM 185 east of Crawford
12094	Middle Bosque/South Bosque River South Fork at US 84 west of Waco

Published studies

Publication	Date	Author
IS 6 Middle Bosque/South Bosque	April 1978	Ezell, C.

Wastewater dischargers

Permit type	Number of outfalls
Agriculture	5
Domestic	2

Brazos River Basin

Segment 1247 - Granger Lake

Water body description:	From Granger Dam in Williamson County to a point 1.9 km (1.2 miles) downstream of SH 95 in Williamson County, up to normal pool elevation of 504 feet (impounds San Gabriel River)
Water body classification:	Classified
Water body type:	Reservoir
Water body length / area:	4,400 Acres
Use support summary:	Available data indicate the aquatic life, contact recreation, public water supply, and general uses are supported. The fish consumption use was not assessed due to insufficient data.
Water quality concerns summary:	Nitrite + nitrate nitrogen is a concern in the headwaters of the reservoir.

Monitoring sites used in the assessment

Station	Station Description
12095	Granger Lake near dam
12096	Granger Lake in San Gabriel River arm near headwaters
12097	Granger Lake in Willis Creek arm

Wastewater dischargers

Permit type	Number of outfalls
Domestic	5

Brazos River Basin

Segment 1248 - San Gabriel/North Fork San Gabriel River

Water body description:	From point 1.9 km (1.2 miles) downstream of SH 95 in Williamson County to North San Gabriel Dam in Williamson County
Water body classification:	Classified
Water body type:	Freshwater Stream
Water body length / area:	21.00 Miles

Use support summary:	Available data indicate the aquatic life, contact recreation, public water supply, and general uses are supported. The fish consumption use was not assessed due to insufficient data.
Water quality concerns summary:	Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
12102	San Gabriel/North Fork San Gabriel River at SH 29 east of Georgetown
12107	San Gabriel/north Fork San Gabriel River at low water crossing in San Gabriel Park in Georgetown

Published studies

Publication	Date	Author
IS 87-01 San Gabriel River	Aug. 1985	Respess, R.

Wastewater dischargers

Permit type	Number of outfalls
Domestic	13

Historical fish kills

Start date	Location	Fish killed	Suspected cause
01/27/1995	Mainkins Branch from CR 102 to San Gabriel River	12	Unknown
07/14/1996	San Gabriel River	15	Low Dissolved Oxygen

Brazos River Basin

Segment 1249 - Lake Georgetown

Water body description:	From North San Gabriel Dam in Williamson County to a point 6.6 km (4.1 miles) downstream of US 183 in Williamson County, up to normal pool elevation of 791 feet (impounds North Fork San Gabriel River)
Water body classification:	Classified
Water body type:	Reservoir
Water body length / area:	1,310 Acres
Use support summary:	Available data indicate the aquatic life, contact recreation, public water supply, and general uses are supported. The fish consumption use was not assessed due to insufficient data.
Water quality concerns summary:	Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
12111	Lake Georgetown near dam
12113	Lake Georgetown near headwaters-north San Gabriel arm

Wastewater dischargers

Permit type	Number of outfalls
Domestic	3

Brazos River Basin

Segment 1250 - South Fork San Gabriel River

Water body description: From the confluence with the North Fork San Gabriel River in Williamson County to the most upstream crossing of SH 29 in Burnet County

Water body classification: Classified

Water body type: Freshwater Stream

Water body length / area: 40.00 Miles

Use support summary: Available data indicate the aquatic life, contact recreation, and general uses are supported in the lower 25 miles. The public water supply use is supported throughout the segment. The fish consumption use was not assessed due to insufficient data.

Water quality concerns summary: Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
11726	Oatmeal Creek at FM 1174 3.6 miles south of Bertram
12116	South Fork San Gabriel River at US 183

Wastewater dischargers

Permit type	Number of outfalls
Domestic	15

Historical fish kills

Start date	Location	Fish killed	Suspected cause
07/03/1996	Lake Creek	50	Temperature

Brazos River Basin

Segment 1251 - North Fork San Gabriel River

Water body description:	From a point 6.6 km (4.1 miles) downstream of US 183 in Williamson County to the confluence of Allen Branch in Burnet County
Water body classification:	Classified
Water body type:	Freshwater Stream
Water body length / area:	39.00 Miles

Use support summary:	Available data indicate the aquatic life, contact recreation, public water supply, and general uses are supported in the lower 25 miles. The public water supply use is supported throughout the segment. The fish consumption use was not assessed due to insufficient data.
Water quality concerns summary:	Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
12120	North Fork San Gabriel River at county road 1 km downstream from US 183

Brazos River Basin

Segment 1252 - Lake Limestone

Water body description:	From Sterling C. Robertson Dam in Leon/Robertson County to a point 2.3 km (1.4 miles) downstream of SH 164 in Limestone County, up to normal pool elevation of 363 feet (impounds Navasota River)
Water body classification:	Classified
Water body type:	Reservoir
Water body length / area:	14,200 Acres

Use support summary:	Available data indicate the aquatic life, contact recreation, public water supply, and general uses are supported. The fish consumption use was not assessed due to insufficient data.
Water quality concerns summary:	Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
12123	Lake Limestone near dam
12125	Lake Limestone at confluence of Navasota River and Big Creek arms
13967	Lake Limestone USGS site AR
13968	Lake Limestone USGS site AC
13969	Lake Limestone USGS site BC
13970	Lake Limestone USGS site DC, at FM 3371
13971	Lake Limestone USGS site CC
13972	Lake Limestone USGS site EC

Wastewater dischargers

Permit type	Number of outfalls
Domestic	2
Industrial	24

Brazos River Basin

Segment 1253 - Navasota River Below Lake Mexia

Water body description: From a point 2.3 km (1.4 miles) downstream of SH 164 in Limestone County to Bistone Dam in Limestone County

Water body classification: Classified

Water body type: Freshwater Stream

Water body length / area: 19.00 Miles

Use support summary: Available data indicate the aquatic life, public water supply, and general uses are supported. The fish consumption and contact recreation uses were not assessed due to insufficient data.

Water quality concerns summary: Available data indicate that there are no public water supply concerns. Other concerns were not assessed due to insufficient data.

Monitoring sites used in the assessment

Station	Station Description
12126	Upper Navasota River at SH 164 east of Groesbeck

Wastewater dischargers

Permit type	Number of outfalls
Domestic	4

Historical fish kills

Start date	Location	Fish killed	Suspected cause
07/03/1996	Ft Parker State Park	81,666	Low Dissolved Oxygen

Brazos River Basin

Segment 1254 - Aquilla Reservoir

Water body description:	From Aquilla Dam in Hill County up to the normal pool elevation of 537.5 feet (impounds Aquilla Creek)
Water body classification:	Classified
Water body type:	Reservoir
Water body length / area:	3,280 Acres

Use support summary: The aquatic life use is partially supported due to depressed dissolved oxygen concentrations. The public water supply use is not supported because atrazine concentrations in finished drinking water exceed the Maximum Contaminant Level for primary drinking water. Alachlor concentrations in finished drinking water exceed 50% of the maximum contaminant level, indicating that the use is threatened. General uses are supported. The fish consumption use was not assessed due to insufficient data.

Water quality concerns summary: Nitrite + nitrate nitrogen is a concern.

Additional information: A total maximum daily load (TMDL) to evaluate the causes and sources of atrazine and allocate the allowable loading has been completed and approved by the Commission.

Projects are underway for alachlor and dissolved oxygen to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program.

For more information on specific TMDL projects, visit the TNRCC Web site at *www.tnrcc.state.tx.us/water/quality/tmdl/*.

Monitoring sites used in the assessment

Station	Station Description
12127	Aquilla Reservoir at dam
12128	Aquilla Reservoir in Aquilla Creek arm
12129	Aquilla Reservoir at FM 1947, 7.3 mi southwest of downtown Hillsboro

Wastewater dischargers

Permit type	Number of outfalls
Agriculture	12
Domestic	3

Historical fish kills

Start date	Location	Fish killed	Suspected cause
05/04/1995	Little Aquilla Creek - and Aquilla Creek at Hill County Road 2415 and Highway 22.	1,000	Low Dissolved Oxygen
05/18/1995	Aquilla reservoir - in stilling basin and downstream	2,647	Low Dissolved Oxygen
07/30/1996	Lake Aquilla - Stilling basin	80	Physical Damage/Trauma

Brazos River Basin

Segment 1255 - Upper North Bosque River

Water body description:	From a point immediately above the confluence of Indian Creek in Erath County to the confluence of the North Fork and South Fork of the Bosque River in Erath County.
Water body classification:	Classified
Water body type:	Freshwater Stream
Water body length / area:	13.00 Miles

Use support summary: The contact recreation use is not supported due to elevated fecal coliform densities. General uses are not supported due to elevated average concentrations of chloride, sulfate, and total dissolved solids. The aquatic life use is supported. The fish consumption use was not assessed due to insufficient data.

Water quality concerns summary: Water quality data contributed by the Texas Institute for Applied Environmental Research (TIAER) indicate ammonia nitrogen, nitrite+nitrate nitrogen, orthophosphorus, total phosphorus, and chlorophyll *a* are concerns from the city of Stephenville downstream to the end of the segment. TIAER data also indicate that excessive nutrients enter the segment from tributary watersheds. Small reservoirs (PL-566 structures) in the watershed also have elevated phosphorus and chlorophyll *a* concentrations. The nutrient concentrations stimulate nuisance algal growths, which are narrative criteria concerns.

Additional information: A wasteload evaluation (WLE) for dissolved oxygen was approved in 1988 and has been incorporated into the state Water Quality Management Plan. Advanced waste treatment is required for one or more dischargers.

A total maximum daily load (TMDL) to evaluate the causes and sources of nutrients and allocate the allowable loading has been completed and approved by the Commission.

Additional information, continued:

A project is scheduled for fecal coliform bacteria to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program.

For more information on specific TMDL projects, visit the TNRCC Web site at *www.tnrcc.state.tx.us/water/quality/tmdl/*.

Monitoring sites used in the assessment

Station	Station Description
11963	North Bosque River at Erath CR 454, 0.6 km west of US 281 and 3.3 km downstream of US 377/67 in Stephenville
11964	North Bosque River at US 377/67 in Stephenville

Wastewater dischargers

Permit type	Number of outfalls
Agriculture	87
Domestic	7
Industrial	4